



Qualification Specification Guide

BCS IT User Suite of Qualifications

BCS Level 1 Award in IT User Skills (ICDL Essentials) (ITQ)

BCS Level 1 ICDL Award in IT User Skills

BCS Level 1 ICDL Certificate in IT User Skills

BCS Level 2 ICDL Award in IT User Skills

BCS Level 2 ICDL Certificate in IT User Skills

BCS Level 2 Certificate in IT User Skills (ICDL Core)

BCS Level 2 Certificate in IT User Skills (ICDL Extra) (ITQ)

BCS Level 3 Certificate in IT User Skills (ITQ)

BCS Level 3 Certificate in IT User Skills (ICDL Advanced) (ITQ)

V3 September 2021

These are qualifications which are regulated by one or more of the following:
Ofqual, Qualifications Wales, CCEA Regulation or SQA

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Change History

Any changes made to the qualification specification shall be clearly documented with a change history log. This shall include the latest version number, date of the amendment and changes made. The purpose is to identify quickly what changes have been made.

| Version Number | Changes Made |
|-----------------------|---|
| V2.9 | Requirements for testing added. |
| V2.8 | Range for learning objectives added. Methods of Assessment table updated. |
| V2.7 | Additional formatting changes and changes to order of information. |
| V2.6 | Addition of ECDL Core qualification to booklet Formatting changes. |
| V2.5 March 2019 | Addition of change history table. Major updates to formatting. |

1. Introduction to the ITQ Suite of Qualifications

1.1 About the Qualifications

BCS ITQs are IT qualifications made up of units in the ITQ framework. The framework of units cover all aspects of IT application including word processing, spreadsheets, the internet, multimedia software and design software.

Our range of ITQs includes popular ICDL qualifications which are the most popular qualifications on the framework and promote computer knowledge and efficient use of software.

BCQ ITQ has the flexibility to meet the individual needs of the learner, offering them a recognised qualification made up of units relevant to them. Choose from over 80 units across three levels of achievement.

The flexibility of ITQ encourages progression by recognising small steps of achieving and the opportunity to build on existing skills.

1.2 The Benefits

- Flexibility to choose units of study that meet the learner's needs;
- Wide coverage of IT – encompasses 29 subject areas across three levels of ability;
- Learners build the confidence to use IT more effectively and productively;
- Increases employability;
- Nationally recognised IT qualification.

1.3 Qualification Objectives

The aim of these nationally recognised IT user qualifications is to:

- improve learners' knowledge and understanding of IT
- develop skills to work effectively and efficiently using IT
- provide proof of IT competence
- allow progression to employment or further study.

1.4 Who the Qualifications are for

These qualifications are designed for people using technology:

- at work
- in education
- when looking for work
- in their leisure time.

1.5 Entry Requirements

There are no formal entry requirements for these qualifications. It is expected that an initial assessment has taken place with the Approved Centre to ensure that the learner is capable of reaching the required standards.

It is recommended that learners complete an IT User Qualification at either Level 1 or 2 prior to sitting the ICDL Advanced or Level 3 ICDL Award qualifications. However, this is not a mandatory requirement.

1.6 Learner Progression

This suite of qualifications gives learners the opportunity to:

- progress to employment;
- prepare for employment;
- progress to further study;
- develop further or more advanced skills by completing another qualification within the suite which is either larger or at a higher level.

1.7 Qualification Size

The size of the qualifications are described in terms of Guided Learning Hours (GLH) and Total Qualification Time (TQT).

GLH indicates the approximate time (in hours) that the learner will be supervised during any teaching, learning or assessment activities.

TQT is a predication of the total time a learner with no prior knowledge might need to complete the course.

TQT is made up of two elements: GLH, **and** all other hours (an estimate of the number of hours a learner will reasonably spend on any unsupervised learning or assessment activities including homework, research, exam preparation and formal assessment) so that they can successfully achieve the qualification.

Each qualification requires the following GLH and TQT:

| Qualification Title | QAN | GLH | TQT |
|---|------------|-----|-----|
| BCS Level 1 Award in IT User Skills (ICDL Essentials) (IT User) | 500/6226/8 | 61 | 92 |
| BCS Level 1 ICDL Award in IT User Skills | 601/0633/5 | 69 | 89 |
| BCS Level 1 ICDL Certificate in IT User Skills | 601/1236/0 | 86 | 129 |

| Qualification Title | QAN | GLH | TQT |
|---|----------------|-----|-----|
| BCS Level 2 ICDL Award in IT User Skills | 601/0634/ 7 | 86 | 114 |
| BCS Level 2 ICDL Certificate in IT User Skills | 601/1237/ 2 | 106 | 146 |
| BCS Level 2 Certificate in IT User Skills (ICDL Core) | 601/8240/ 4 | 103 | 141 |
| BCS Level 2 Certificate in IT User Skills (ICDL Extra) (IT User) | 500/6242/ 6 | 90 | 120 |
| BCS Level 3 Certificate in IT User Skills (IT User) | 500/6176/ 8 | 203 | 247 |
| BCS Level 3 Certificate in IT User Skills (ICDL Advanced) (IT User) | 500/6243/ 8 | 179 | 248 |

1.8 Minimum and Maximum Credit Values

IT User qualifications are available in two sizes (Award and Certificate) and both have three levels - Level 1 to Level 3. The benefits of this are that learners can progress in two ways, either by working towards a larger qualification at the same level or by working towards a higher-level qualification.

To achieve one of these qualifications there is a minimum credit requirement, which is shown in the table below:

| Minimum and Maximum Credit Levels | | | |
|-----------------------------------|---------|---------|---------|
| Qualification Size | Level 1 | Level 2 | Level 3 |
| Award | 9-12 | 10 – 15 | 12 - 18 |
| Certificate | 13 – 16 | 16-20 | 25 -30 |

2. Structure and Content

BCS IT User qualifications are made up from a library of units which are combined and available as:

- flexible qualifications;
- pre-packaged 'fixed' qualifications;
- flexible ICDL based qualifications.

Each qualification has a Rule of Combination (RoC). The RoC specifies how units can be combined as well as the overall number of credits that must be achieved for the qualification to be awarded.

2.1 Fixed Qualifications

All units within the following 'fixed' qualifications are mandatory.

[BCS Level 1 Award in IT User Skills \(ICDL Essentials\) \(ITQ\) \(500/6226/8\)](#)

| Mandatory Units | Unit code | Level | Credit value |
|---|--------------------------|-------|--------------|
| IT User Fundamentals | J/502/4206 | 1 | 3 |
| Using Email and the Internet ¹ | J/502/4299 T/502/4296 | 1 | 5 |
| IT Security for Users | R/502/4256 | 1 | 1 |
| Total Credits | | | 9 |

¹ Level 1 Using the Internet and Using email units are only offered as a combined unit with a credit value of 5

[BCS Level 2 Certificate in IT User Skills \(ICDL Core\) \(ITQ\) \(601/8240/4\)](#)

| Mandatory Units | Unit code | Level | Credit value |
|------------------------|------------------|--------------|---------------------|
| IT Security for Users | Y/507/9680 | 1 | 1 |
| IT User Fundamentals | D/507/9681 | 1 | 3 |
| Using email | H/507/9682 | 1 | 2 |
| Using internet | K/507/9683 | 1 | 3 |
| Word Processing | F/507/9687 | 2 | 4 |
| Spreadsheet Software | A/507/9686 | 2 | 4 |
| Presentation Software | T/507/9685 | 2 | 4 |
| Database Software | M/507/9684 | 2 | 4 |
| Total Credits | | | 25 |

[BCS Level 2 Certificate in IT User Skills \(ICDL Extra\) \(ITQ\) \(500/6242/6\)](#)

| Mandatory Units | Unit code | Level | Credit value |
|---------------------------------|------------------|--------------|---------------------|
| Word Processing Software | R/502/4628 | 2 | 4 |
| Spreadsheet Software | F/502/4625 | 2 | 4 |
| Presentation Software | M/502/4622 | 2 | 4 |
| Improving Productivity Using IT | J/502/4156 | 2 | 4 |
| Total Credits | | | 16 |

[BCS Level 3 Certificate in IT User Skills \(ICDL Advanced\) \(ITQ\) \(500/6243/8\)](#)

| Mandatory Units | Unit code | Level | Credit value |
|---------------------------------|------------------|--------------|---------------------|
| Word Processing Software | Y/502/4629 | 3 | 6 |
| Spreadsheet Software | J/502/4626 | 3 | 6 |
| Presentation Software | T/502/4623 | 3 | 6 |
| Database Software | T/502/4556 | 3 | 6 |
| Improving Productivity Using IT | L/502/4157 | 3 | 5 |
| Total Credits | | | 29 |

2.2 Flexible IT User Qualifications

This qualification has rules of combination which must be followed. Please see the table below for further information:

[BCS Level 3 Certificate in IT User Skills \(IT User\) \(500/6176/8\)](#)

| | |
|----------------------|---|
| Minimum Credit Value | 25 |
| Maximum Credit Value | 30 |
| Mandatory Unit | L3 Improving Productivity Using IT (5 credits) |
| Optional Units | At least 20 and at most 25 additional credits, of which at least 10 credits must come from Level 3 units. |

2.3 Flexible ICDL Qualifications

These qualifications have rules of combination which must be followed. Please see the tables below for further information:

BCS Level 1 ICDL Award in IT User Skills (601/0633/5)

| ICDL Flexible Award | |
|----------------------|--|
| Minimum Credit Value | 9 |
| Maximum Credit Value | 12 |
| Mandatory Unit | N/A |
| Optional Units | At least 6 credits must come from Level 1 units. |

BCS Level 1 ICDL Certificate in IT User Skills (601/1236/0)

| ICDL Flexible Award | |
|----------------------|--|
| Minimum Credit Value | 13 |
| Maximum Credit Value | 16 |
| Mandatory Unit | L1 Improving Productivity Using IT (3 credits) |
| Optional Units | At least 10 and at most 13 additional credits, of which at least 4 credits must come from Level 1 units. |

BCS Level 2 ICDL Award in IT User Skills (601/0634/7)

| ICDL Flexible Award | |
|----------------------|--|
| Minimum Credit Value | 10 |
| Maximum Credit Value | 15 |
| Mandatory Unit | N/A |
| Optional Units | At least 7 credits must come from Level 2 units. |

BCS Level 2 ICDL Certificate in IT User Skills (601/1237/2)

| ICDL Flexible Certificate | |
|----------------------------------|--|
| Minimum Credit Value | 16 |
| Maximum Credit Value | 20 |
| Mandatory Unit | L2 Improving Productivity Using IT (4 credits) |
| Optional Units | At least 12 and at most 16 additional credits, of which at least 6 credits must come from Level 2 units. |

3. Units

3.1 Availability of units

| Unit Name (Level 1) | Unit Code | Credits | (601/0633/5) L1 Award | (601/1236/0) L1 Certificate | (601/0634/7) L2 Award | (601/1237/2) L2 Certificate | (500/6176/8) L3 Certificate |
|----------------------------------|------------|---------|--------------------------|--------------------------------|--------------------------|--------------------------------|--------------------------------|
| Audio Software | K/502/4389 | 2 | N/A | N/A | N/A | N/A | Optional |
| Bespoke Software | A/502/4395 | 2 | N/A | N/A | N/A | N/A | Optional |
| Computerised Accounting Software | F/502/4401 | 2 | N/A | N/A | N/A | N/A | Optional |
| Data Management Software | F/502/4558 | 2 | N/A | N/A | N/A | N/A | Optional |
| Database Software | H/502/4553 | 3 | Optional | Optional | Optional | Optional | Optional |
| Design Software | M/502/4572 | 3 | N/A | N/A | N/A | N/A | Optional |
| Desktop Publishing Software | Y/502/4565 | 3 | N/A | N/A | N/A | N/A | Optional |
| Drawing & Planning Software | J/502/4609 | 2 | N/A | N/A | N/A | N/A | Optional |
| Imaging Software | J/502/4612 | 3 | N/A | N/A | N/A | N/A | Optional |
| Improving Productivity using IT | T/502/4153 | 3 | Optional | Mandatory | Optional | N/A | Optional |
| Internet Safety for IT Users | H/502/9154 | 3 | N/A | N/A | N/A | N/A | Optional |
| IT Communication Fundamentals | Y/502/4291 | 2 | N/A | N/A | N/A | N/A | Optional |
| IT Security for Users | R/502/4256 | 1 | Optional | Optional | Optional | Optional | Optional |

| Unit Name (Level 1) | Unit Code | Credits | (601/0633/5) L1 Award | (601/1236/0) L1 Certificate | (601/0634/7) L2 Award | (601/1237/2) L2 Certificate | (500/6176/8) L3 Certificate |
|--|------------|---------|--------------------------|--------------------------------|--------------------------|--------------------------------|--------------------------------|
| IT Software Fundamentals | L/502/4384 | 3 | N/A | N/A | N/A | N/A | Optional |
| IT User Fundamentals | J/502/4206 | 3 | Optional | Optional | Optional | Optional | Optional |
| Multimedia Software | Y/502/4615 | 3 | N/A | N/A | N/A | N/A | Optional |
| Optimise IT System Performance | D/502/4244 | 2 | N/A | N/A | N/A | N/A | Optional |
| Personal Information Management Software | Y/502/4369 | 2 | N/A | N/A | N/A | N/A | Optional |
| Presentation Software | K/502/4621 | 3 | Optional | Optional | Optional | Optional | Optional |
| Project Management Software | K/502/4618 | 3 | N/A | N/A | N/A | N/A | Optional |
| Set up an IT System | Y/502/4209 | 3 | N/A | N/A | N/A | N/A | Optional |
| Specialist Software | L/502/4398 | 2 | N/A | N/A | N/A | N/A | Optional |
| Spreadsheet Software | A/502/4624 | 3 | Optional | Optional | Optional | Optional | Optional |
| Using a computer keyboard | J/502/9311 | 1 | N/A | N/A | N/A | N/A | Optional |
| Using Collaborative Technologies | A/502/4378 | 3 | Optional | Optional | Optional | Optional | Optional |
| Using Email * | J/502/4299 | 2 | Optional | Optional | Optional | Optional | Optional |
| Using Mobile IT Devices | H/502/4374 | 2 | N/A | N/A | N/A | N/A | Optional |
| Using the Internet * | T/502/4296 | 3 | Optional | Optional | Optional | Optional | Optional |

| Unit Name (Level 1) | Unit Code | Credits | (601/0633/5) L1 Award | (601/1236/0) L1 Certificate | (601/0634/7) L2 Award | (601/1237/2) L2 Certificate | (500/6176/8) L3 Certificate |
|--------------------------|------------|---------|--------------------------|--------------------------------|--------------------------|--------------------------------|--------------------------------|
| Video Software | K/502/4392 | 2 | N/A | N/A | N/A | N/A | Optional |
| Website Software | L/502/4630 | 3 | N/A | N/A | N/A | N/A | Optional |
| Word Processing Software | L/502/4627 | 3 | Optional | Optional | Optional | Optional | Optional |

* Level 1 Using the Internet and Using email units are only offered as a combined unit with a credit value of 5.

| Unit Name (Level 2) | Unit Code | Credits | (601/0633/5) L1 Award | (601/1236/0) L1 Certificate | (601/0634/7) L2 Award | (601/1237/2) L2 Certificate | (500/6176/8) L3 Certificate |
|---|------------|---------|--------------------------|--------------------------------|--------------------------|--------------------------------|--------------------------------|
| Audio Software | D/502/4390 | 3 | N/A | N/A | N/A | N/A | Optional |
| Bespoke Software | F/502/4396 | 3 | N/A | N/A | N/A | N/A | Optional |
| Computerised Accounting Software | J/502/4402 | 3 | N/A | N/A | N/A | N/A | Optional |
| Data Management Software | J/502/4559 | 3 | N/A | N/A | N/A | N/A | Optional |
| Database Software | M/502/4555 | 4 | Optional | Optional | Optional | Optional | Optional |
| Design Software | T/502/4573 | 4 | N/A | N/A | N/A | N/A | Optional |
| Desktop Publishing Software | D/502/4566 | 4 | N/A | N/A | N/A | N/A | Optional |
| Developing Personal and Team Effectiveness Using IT | T/503/0499 | 4 | N/A | N/A | N/A | N/A | Optional |
| Drawing & Planning Software | A/502/4610 | 3 | N/A | N/A | N/A | N/A | Optional |
| Imaging Software | L/502/4613 | 4 | N/A | N/A | N/A | N/A | Optional |
| Improving Productivity Using IT | J/502/4156 | 4 | Optional | N/A | Optional | Mandatory | Optional |
| IT Communication Fundamentals | D/502/4292 | 2 | N/A | N/A | N/A | N/A | Optional |
| IT Security for Users | Y/502/4257 | 2 | N/A | N/A | N/A | N/A | Optional |
| IT Software Fundamentals | R/502/4385 | 3 | N/A | N/A | N/A | N/A | Optional |
| IT User Fundamentals | L/502/4207 | 3 | N/A | N/A | N/A | N/A | Optional |
| Multimedia Software | D/502/4616 | 4 | N/A | N/A | N/A | N/A | Optional |
| Optimise IT System Performance | H/502/4245 | 4 | N/A | N/A | N/A | N/A | Optional |
| Personal Information Management Software | L/502/4370 | 2 | N/A | N/A | N/A | N/A | Optional |

| Unit Name (Level 2) | Unit Code | Credits | (601/0633/5) L1 Award | (601/1236/0) L1 Certificate | (601/0634/7) L2 Award | (601/1237/2) L2 Certificate | (500/6176/8) L3 Certificate |
|-----------------------------------|------------|---------|--------------------------|--------------------------------|--------------------------|--------------------------------|--------------------------------|
| Presentation Software | M/502/4622 | 4 | Optional | Optional | Optional | Optional | Optional |
| Project Management Software | M/502/4619 | 4 | Optional | Optional | Optional | Optional | Optional |
| Set up an IT System | L/502/4210 | 4 | N/A | N/A | N/A | N/A | Optional |
| Specialist Software | R/502/4399 | 3 | N/A | N/A | N/A | N/A | Optional |
| Spreadsheet Software | F/502/4625 | 4 | Optional | Optional | Optional | Optional | Optional |
| Understanding the Potential of IT | M/503/0498 | 8 | N/A | N/A | N/A | N/A | Optional |
| Using Collaborative Technologies | F/502/4379 | 4 | NA | N/A | N/A | N/A | Optional |
| Using Email | M/502/4300 | 3 | N/A | N/A | N/A | N/A | Optional |
| Using Mobile IT Devices | K/502/4375 | 2 | N/A | N/A | N/A | N/A | Optional |
| Using the Internet | A/502/4297 | 4 | N/A | N/A | N/A | N/A | Optional |
| Video Software | M/502/4393 | 3 | N/A | N/A | N/A | N/A | Optional |
| Website Software | R/502/4631 | 4 | N/A | N/A | N/A | N/A | Optional |
| Word Processing Software | R/502/4628 | 4 | Optional | Optional | Optional | Optional | Optional |

| Unit Name (Level 3) | Unit Code | Credits | (601/0633/5) L1 Award | (601/1236/0) L1 Certificate | (601/0634/7) L2 Award | (601/1237/2) L2 Certificate | (500/6176/8) L3 Certificate |
|---|------------|---------|--------------------------|--------------------------------|--------------------------|--------------------------------|--------------------------------|
| Audio Software | H/502/4391 | 4 | N/A | N/A | N/A | N/A | Optional |
| Bespoke Software | J/502/4397 | 4 | N/A | N/A | N/A | N/A | Optional |
| Computerised Accounting Software | L/502/4403 | 5 | N/A | N/A | N/A | N/A | Optional |
| Data Management Software | A/502/4560 | 4 | N/A | N/A | N/A | N/A | Optional |
| Database Software | T/502/4556 | 6 | Optional | Optional | Optional | Optional | Optional |
| Design Software | A/502/4574 | 5 | N/A | N/A | N/A | N/A | Optional |
| Desktop Publishing Software | H/502/4567 | 5 | N/A | N/A | N/A | N/A | Optional |
| Developing Personal and Team Effectiveness Using IT | H/503/0501 | 4 | N/A | N/A | N/A | N/A | Optional |
| Drawing & Planning Software | F/502/4611 | 4 | N/A | N/A | N/A | N/A | Optional |
| Imaging Software | R/502/4614 | 5 | N/A | N/A | N/A | N/A | Optional |
| Improving Productivity using IT | L/502/4157 | 5 | Optional | N/A | Optional | N/A | Mandatory |
| IT Security for Users | D/502/4258 | 3 | N/A | N/A | N/A | N/A | Optional |
| Multimedia Software | H/502/4617 | 6 | N/A | N/A | N/A | N/A | Optional |
| Optimise IT System Performance | K/502/4246 | 5 | N/A | N/A | N/A | N/A | Optional |
| Presentation Software | T/502/4623 | 6 | Optional | Optional | Optional | Optional | Optional |
| Project Management Software | H/502/4620 | 5 | N/A | N/A | N/A | N/A | Optional |
| Set up an IT System | R/502/4211 | 5 | N/A | N/A | N/A | N/A | Optional |
| Specialist Software | A/502/4400 | 4 | N/A | N/A | N/A | N/A | Optional |

| Unit Name (Level 3) | Unit Code | Credits | (601/0633/5) L1 Award | (601/1236/0) L1 Certificate | (601/0634/7) L2 Award | (601/1237/2) L2 Certificate | (500/6176/8) L3 Certificate |
|-----------------------------------|------------|---------|--------------------------|--------------------------------|--------------------------|--------------------------------|--------------------------------|
| Spreadsheet Software | J/502/4626 | 6 | Optional | Optional | Optional | Optional | Optional |
| Understanding the Potential of IT | D/503/0500 | 8 | N/A | N/A | N/A | N/A | Optional |
| Using Collaborative Technologies | T/502/4380 | 6 | N/A | N/A | N/A | N/A | Optional |
| Using Email * | T/502/4301 | 3 | N/A | N/A | N/A | N/A | Optional |
| Using the Internet* | F/502/4298 | 5 | N/A | N/A | N/A | N/A | Optional |
| Website Software | Y/502/4632 | 5 | N/A | N/A | N/A | N/A | Optional |
| Word Processing Software | Y/502/4629 | 6 | Optional | Optional | Optional | Optional | Optional |

3.2 Level 1: Learning outcomes and assessment criteria
Audio Software (K/502/4389)

| Level 1 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Use audio hardware and software to capture sequences | Identify the input device and associated software to use | Input devices: Microphone, Dictaphone, mobile phone; Input techniques: Copy and paste, screen grabs/shots, file download (eg connect USB lead, drag and drop) File format: Supported by the software used (eg png, quicktime) Store and retrieve: Files (eg create, name, open, save, save as, print, close, find) |
| | Use input devices and built-in audio software to record information to meet needs | |
| | Identify the file format used by the input device | |
| | Store and retrieve sequences using pre- set file formats, in line with local guidelines and conventions where available | |
| Use audio software tools to combine and edit sequences | Identify the audio editing software to use for the file format | Sequence: Specially recorded, existing; short (eg less than 2 mins) Combine information: Audio clips into presentations; Techniques: Copy and paste, insert, Forms of information: sound (eg spoken word, music, sound effects) Copyright constraints: Effect of copyright law (eg on music downloads or use of other people's images), acknowledgment of sources, avoiding plagiarism, permissions |
| | Cut and paste short sequences to meet needs | |
| | Combine information of different forms or from different sources, in line with any copyright constraints | |
| | Identify copyright constraints on using others' information | |
| Play and present audio sequences | Identify appropriate playback software to use for the sequence | Display device: PC, laptop, Dictaphone, mobile phone, handheld audio device (eg mp3 player, iPod) Adjust playback and display settings: Playback controls (eg start, stop, fast forward, rewind, pause); sound (eg volume) |
| | Identify the display device to use for the sequence | |
| | Select and use appropriate combination of software and display device to playback audio sequences | |
| | Adjust playback and display settings so that sequences are presented to meet needs | |

Bespoke Software (A/502/4395)

| Level 1 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Input, organise and combine information using bespoke software | Input relevant information accurately into existing templates and/or files so that it is ready for processing | <p>Types of bespoke information: Information will vary according to the software for example, text, numbers, photos, scanned images, graphic elements, digital recorded sound, graphs, charts, tables</p> <p>Inputting information: Inputting tools and techniques will vary according to the technology being used: for example, interface devices (eg keyboard, mouse, stylus, touch screen), microphone (eg headset, built-in), camera (eg web cam, video camera, mobile phone camera)</p> <p>Combining information techniques: Insert, size, position, wrap, order, group</p> <p>Guidelines for the storage and use of data: Set by employer or organisation. Policies relating to security, backup and data protection; guidelines for data format; compliance, audit and reporting requirements. File management will vary according to the application.</p> |
| | Organise and combine information of different forms or from different sources | |
| | Follow local and/or legal guidelines for the storage and use of data where available | |
| | Respond appropriately to data entry error messages | |
| Use tools and techniques to edit, process, format and present information | Use appropriate tools and techniques to edit, process and format information | <p>Editing, analysis and formatting techniques: Techniques will vary according to the software and task, for example:</p> <p>Editing – select, insert, delete, cut, copy, paste, drag and drop, find, replace, page layout, labelling, alignment, orientation, colour, resolution, size, pitch</p> <p>Process – sort, pre-set queries, simple operator formulas, charts and graphs</p> <p>Formatting – characters, lines, paragraphs, pages, file type</p> <p>Check bespoke information: Checks will vary according to the type of information and software, but could include: spell check,</p> |
| | Check information meets needs, using IT tools and making corrections as appropriate | |
| | Use appropriate presentation methods and accepted layouts | |

| Level 1 | | |
|----------------------|---------------------|--|
| Learning outcomes | Assessment Criteria | Examples |
| The learner will.... | The learner can... | |
| | | <p>grammar check, accuracy of figures, labelling and size of images, volume of sound</p> <p>Presentation methods: Methods will vary according to the software and task, for example, on screen display, publishing on a web site, hard copy print out, digital file; organisational house style, branding</p> |

Computerised Accounting Software (F/502/4401)

| Level 1 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Access, enter and edit accounting information | Identify the sources and characteristics of accounting data | <p>Characteristics of accounting data: Unique references; codes; statutory requirements; editing restrictions</p> <p>Enter accounting data: Use of data entry form and wizards; add/amend record (sales/purchase order; invoice)</p> <p>Locate and display: Search, sort, filter. Print records</p> <p>Check data: Spell check, format, consistency, accuracy, remove duplication, verify data; edit details; check calculations; check coding</p> <p>Security risks and procedures: Access control; authorised use, confidentiality, protection of personal data, password protection and management, user authentication</p> <p>Guidelines for the storage and use of data: Set by employer or organisation. Policies relating to security, backup and data protection; guidelines for data format; compliance, audit and reporting requirements File management will vary according to the application.</p> |
| | Enter accounting data accurately into records to meet requirements | |
| | Locate and display accounting data records to meet requirements | |
| | Check data records meet needs using IT tools, making corrections as necessary | |
| | Identify the risks to data security and procedures used for data protection | |
| | Follow local and/or legal guidelines for the storage and use of data | |
| Use tools and techniques to process business transactions | Use appropriate tools and techniques to process transactions | <p>Process transactions: Types of transactions: Post invoice; receipts; payments, journal entries. Number of items: single items, batches. From: bank statement, cheque book, paying-in book</p> <p>Transaction errors and problems: Using help; duplication, limits of own responsibility, process for reporting errors and problems</p> |
| | Review the transaction process and identify any errors | |
| | Respond appropriately to any transaction errors and problems | |
| Produce accounting documents and summary reports to meet requirements | Identify what information is required and how to present it | <p>Accounting documents: Will vary according to task, but may include for example: Invoice, sales order, purchase order, statement. To screen, printed, for e-mail</p> <p>Management reports: Will vary according to task, but may include for example: audit trail, customer activity; day book; aged debtor, aged creditor</p> |
| | Generate accounting documents as required | |
| | Generate management reports as required | |

Data Management Software (F/502/4558)

| Level 1 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Enter, edit and maintain data records in a data management system | Identify the security procedures used to protect data | <p>Enter data: Use of data entry form; create new record; add record to table</p> <p>Amend data records: Find, search and replace; edit record, sort, use wildcards</p> <p>Check data records: Spell check, format, accuracy, consistency, remove duplication, verify data</p> <p>Security procedures: Access control; authorised use, password protection and management, user authentication</p> <p>Error messages: Due to field size, data type, validation checks; duplicate records; format; using help</p> <p>Guidelines for the storage and use of data: Set by employer or organisation. Policies relating to security, backup and data protection; guidelines for data format; compliance, audit and reporting requirements File management will vary according to the application.</p> |
| | Enter data accurately into records to meet requirements | |
| | Locate and amend individual data records | |
| | Check data records meet needs, using IT tools and making corrections as necessary | |
| | Respond appropriately to data entry error messages | |
| | Follow local and/or legal guidelines for the storage and use of data where available | |
| Retrieve and display data records to meet requirements | Search for and retrieve information using predefined methods to meet given requirements | <p>Search and retrieve: Alphanumeric sort, filter, single criteria, standard queries</p> <p>Reports: Accessing reports that have already been run; using menus or shortcuts, report templates to produce standard reports based on current data</p> |
| | Identify which report to run to output the required information | |
| | Select and view specified reports to output information to meet given requirements | |

Database Software (H/502/4553)

| Level 1 | | |
|--|--|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Enter, edit and organise structured information in a database | Identify the main components of a database | <p>Database components: What types of information are stored: tables, forms, queries, reports</p> <p>Enter structured data: Tables; fields, records; Use of data entry form; create new record; add record to table</p> <p>Locate and amend: Find, search and replace; sort; wildcards</p> <p>Data entry errors: Due to field size, data type, validation checks; using help</p> <p>Check data: Spell check, format, accuracy, consistency</p> |
| | Create a database table for a purpose using specified fields | |
| | Enter structured data into records to meet requirements | |
| | Locate and amend data records | |
| | Respond appropriately to data entry error messages | |
| | Check data meets needs, using IT tools and making corrections as necessary | |
| Use database software tools to extract information and produce reports | Identify queries which meet information requirements | <p>Database queries: Alphanumeric sort, filter, single criteria</p> <p>Database reports: Using menus, wizards or shortcuts</p> |
| | Run simple database queries | |
| | Identify reports which meet information requirements | |
| | Generate and print pre-defined database reports | |

Design Software (M/502/4572)

| Level 1 | | |
|--|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Obtain, insert and combine information for designs | Identify what designs are needed | <p>Designs or images: Designs will vary according to the task for example: photos from a digital camera, scanned images, graphic elements, drawings, clip art</p> <p>Prepare images: Size, crop and position</p> <p>Copyright constraints: Effect of copyright law (eg on use of other people's images), acknowledgment of sources, avoiding plagiarism, permissions</p> <p>Combine information: Insert, size, position, wrap, order, group</p> <p>Context for designs and images: Contexts will vary according to the software and task, for example: on screen display, publishing on a web site, hard copy print out, digital file</p> <p>File formats for designs and images: Will vary according to the content, proprietary and open source formats</p> <p>Store and retrieve: Files (eg create, name, open, save, save as, print, close, find)</p> |
| | Obtain, input and prepare designs to meet needs | |
| | Identify what generic copyright and other constraints apply to the use of designs | |
| | Combine information of different types or from different sources for designs | |
| | Identify the context in which the designs will be used | |
| | Identify which file format to use for saving and exchanging designs | |
| | Store and retrieve files effectively, in line with local guidelines and conventions where available | |
| Use design software tools to create, manipulate and edit designs | Use suitable tools and techniques to create designs | <p>Create designs and images: Draw basic shapes, change properties (eg line width and fill colour), download digital photos from a camera, scan and resize images, add text and other elements (eg lines, boxes and arrows)</p> <p>Manipulate and editing techniques: Align, rotate, flip, arrange, cut, paste, resize, change font, text and colour</p> <p>Check designs and images: Size, alignment and orientation, suitability of file format</p> |
| | Use appropriate tools and techniques to manipulate and edit designs | |
| | Check designs meet needs, using IT tools and making corrections as necessary | |

Desktop Publishing (Y/502/4565)

| Level 1 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | Identify what types of information are needed | Types of information: Text, images, graphics, video, sound |

| Level 1 | | |
|--|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Select and use appropriate designs and page layouts for publications | Identify what page design and layout will be required | Page design and layout: Organisation of information, size, white space, columns, consistency, orientation |
| | Select and use an appropriate page design and layout for publications in line with local guidelines, where relevant | Local guidelines: Templates, house style, branding, publication guidelines, styles, colours and font schemes |
| | Select and use appropriate media for the publication | Publication media: Web, document, multimedia |
| Input and combine text and other information within publication | Input information into publications so that it is ready for editing and formatting | Input information: Using keyboard, mouse, scanner, voice recognition, touch screen, stylus |
| | Identify copyright constraints on using others' information | Copyright constraints: Effect of copyright law (eg on music downloads or use of other people's images), acknowledgment of sources, avoiding plagiarism, permissions |
| | Organise and combine information of different types or from different sources in line with any copyright constraints | Combine presentation information: Insert, size, position, wrap, order, group Forms: images, text, graphic elements (eg borders, lines, panels, shading, logos) |
| | Store and retrieve publication files effectively, in line with local guidelines and conventions where available | Store and retrieve: Files (eg create, name, open, save, save as, print, close, find) |
| Use desktop publishing software techniques to edit and format publications | Identify what editing and formatting to use for the publication | Edit publications: Drag and drop, find, replace, undo redo, size, crop and position, use layout guides |
| | Select and use appropriate techniques to edit publications and format text | Format text: Existing styles and schemes for font (typeface), size, orientation, colour, alignment |
| | Manipulate images and graphic elements accurately | Manipulate images and graphic elements: Size, crop, position, maintain proportion, border |
| | Control text flow within single and multiple columns and pages | Control text flow: In columns, around images and graphic elements, between pages |
| | Check publications meet needs, using IT tools and making corrections as necessary | Check publications: Spell check; grammar check, word count, completeness, accuracy, orientation, layout, text alignment and formatting |

Drawing and Planning Software (J/502/4609)

| Level 1 | | |
|--|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Input, organise and combine information for drawings or plans | Identify what types of 2D shapes and other elements will be needed | <p>Shapes and other elements: Shapes will vary according to the required outcome, for example: flow chart shapes, building plan shapes, audit</p> <p>Other elements: graphic elements (eg lines, arrows, borders, backgrounds, clip art), text, numbers</p> <p>Input information: Inputting tools and techniques will vary according to the technology being used: for example, interface devices (eg keyboard, mouse, stylus, touch screen), microphone (eg headset, built-in), camera (eg web cam, video camera, mobile phone camera)</p> <p>Templates and blank documents: Blank documents; existing templates, working from an example document</p> <p>Copyright constraints: Effect of copyright law (eg on music downloads or use of other people’s images), acknowledgment of sources, avoiding plagiarism, permissions</p> <p>Combine information: Insert, size, position, wrap, order, group</p> <p>Store and retrieve: Files (eg create, name, open, save, save as, print, close, find)</p> |
| | Identify which template or blank document to use | |
| | Select the appropriate shapes, from those available, to meet needs | |
| | Input the relevant shapes and other elements into existing templates or blank documents so that they are ready for editing and formatting | |
| | Identify what copyright constraints apply to the use of shapes or other elements | |
| | Combine information of different types or from different sources for drawings and plans | |
| | Store and retrieve drawing files effectively, in line with local guidelines and conventions where available | |
| Use tools and techniques to edit, manipulate, format and present drawings or plans | Identify what drafting guides to use so that the shapes and other elements are appropriately prepared | <p>Drafting guides: Grid, snap to grid, snap to shape</p> <p>Manipulate and edit shapes and other elements: Will vary, for example: Edit: select, insert, delete, cut, copy, paste, drag and drop, find, replace Text: font, colour, alignment Shapes: size, colour, orientation, connections to other shapes and elements, add labels</p> <p>Format shapes and other elements: Will vary, for example: text (eg font, paragraphs, text block, tabs, bullets), lines (eg width, length, colour, endings, beginnings), drawing elements (eg fill, shadow, corners), connections between shapes and other elements</p> |
| | Use appropriate software tools to manipulate and edit shapes and other elements | |
| | Select and use appropriate software tools to format shapes and other elements | |
| | Check drawings and plans meet needs, using IT tools and making corrections as necessary | |
| | Use appropriate presentation methods and accepted page layouts | |

| Level 1 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | | <p>Check drawings and plans: Spell check, grammar check, accuracy of numbers, labelling and size of shapes, connections between shapes and other elements</p> <p>Presentation methods: Will vary according to the task, for example, on screen display, publishing on a web site, hard copy print out, digital file; organisational house style, branding</p> |

IT User Fundamentals (J/502/4206)

| Level 1 | | |
|--|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Use IT Systems to meet needs | Use correct procedures to start and shutdown an IT System | <p>Start and shutdown procedures: Log in, enter password, log out, shut down menu, lock, unlock</p> <p>IT system: Will vary according to the set up, for example: computer (PC, laptop), input device (eg keyboard, mouse or other pointing device), processor, output device (eg screen, printer), storage media (eg memory, disk, CD, DVD, data/memory stick, hard drive, network drive)</p> <p>Interface features: Desktop, window, dialog box, menu, submenu, toolbar, icon, scrollbar, button, drag and drop, zoom, minimise, maximise</p> <p>System settings: Window size, mouse settings, icon size, screen resolution, desktop contrast, sound volume</p> <p>Communication service: Broadband, dial up, wireless, network connections, mobile device</p> |
| | Use interface features effectively to interact with IT Systems | |
| | Adjust system settings to meet individual needs | |
| | Use a communication service to access the internet | |
| | Use appropriate terminology when describing IT Systems | |
| Organise, store and retrieve information efficiently | Work with files and folders so that it is easy to find and retrieve information | <p>File handling: Files: Create, name, open, save, save as, print and close files; move, copy, rename, delete files; display file lists, sort, search. Folders: Create and name folders and subfolders</p> <p>Storage media: Disk, CD, DVD, data/memory stick, media card, hard drives, network drive, mobile device</p> <p>Organise and store: Insert, remove, name, label, archive</p> |
| | Identify what storage media to use | |
| | Organise and store information, using general and local conventions where appropriate | |
| Follow and understand the need for safety and security practises | Work safely and take steps to minimise physical stress | <p>Work safely: Health and safety issues, risks from hardware, electrical connection risks and guidelines, use and disposal of cleaning materials, handling equipment. Risks to self and others from using hardware; Organisational guidelines and points of contact</p> |
| | Recognise the danger of computer viruses, and how to minimise risk | |
| | Keep information secure | |

| Level 1 | | |
|--|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | <p>Outline why it is so important to stay safe and to respect others when using ICT- based communications</p> <hr/> <p>Follow relevant guidelines and procedures for the safe and secure use of IT</p> | <p>Physical stress: Adjust seating and lighting, avoid hazards, take breaks, arrangement of hardware and cables, wrist rests workspace; working conditions</p> <p>Minimise risk: Virus-checking software, anti-spam software, firewall, treat files, software and attachments from unknown sources with caution</p> <p>Information security: Copies, backup, password, PIN, avoid inappropriate disclosure of information</p> <p>Staying safe: Protect personal information, avoid misuse of images, use appropriate language, respect confidentiality, use copy lists with discrimination</p> <p>Guidelines and procedures: Set by: employer or organisation</p> <p>Topic: Health and safety, security, copyright, netiquette</p> |
| <p>Carry our routine maintenance of IT systems and respond to routine IT system problems</p> | <p>Identify why routine maintenance of hardware is important and when to carry it out</p> <hr/> <p>Identify where to get expert advice</p> <hr/> <p>Carry out regular routine maintenance of IT systems safely</p> <hr/> <p>Take appropriate action to handle routine IT problems</p> | <p>Routine maintenance: Clean hardware, delete unwanted data; Manufacturer's guidelines; what maintenance can be done safely; what should be left to experts; what problems may happen if maintenance is not done; Delete unwanted files</p> <p>Cleaning: For different components of an IT system; to maintain functionality; to maintain appearance; Printer: Replace printer consumables (paper, toner cartridge); print test page, align cartridge</p> <p>Expert advice: Limits of own understanding and skills, help menus, manufacturer's guidelines, how to follow advice, information needed by experts</p> <p>IT problems: Program not responding, error dialogue, storage full, paper jam</p> |

| Level 1 | | |
|--|--|-----------------|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | | |

Set up an IT System (Y/502/4209)

| Level 1 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Connect up a personal computer, printer and peripheral devices safely | Identify what IT system components, storage and peripheral devices are needed and how to connect them | <p>Health and safety issues: Health and safety issues, risks from hardware, electrical connection risks and guidelines, use and disposal of cleaning materials, handling equipment. Risks to self and others from using hardware; health and safety point of contact</p> <p>IT system components: Will vary according to the set up, for example: Personal computer, monitor, keyboard, mouse (or other pointing device)</p> <p>Peripheral devices: Speakers, scanner, games console, joystick; Plug and play devices; default setup routines, printer and other device drivers</p> <p>Removable storage media: Disk, CD/DVD, data/memory stick, media card, mobile device, removable hard drive; default setup routines</p> |
| | Identify any health and safety issues associated with setting up an IT system | |
| | Connect up the components of an IT system safely, including a printer and other peripheral devices | |
| | Connect removable storage media to a PC safely | |
| Connect to an IT communication service | Connect communication hardware safely to a PC | <p>Communication hardware: Router, modem, mobile data device, wireless router</p> <p>Communication service: Broadband, dial up, wireless, network connections, mobile device</p> |
| | Identify the details needed to connect to an Internet Service Provider (ISP) | |
| | Connect to a communication service from a PC | |
| Set up software for use | Configure the user interface to meet needs | <p>User interface: Operating system, date, time, language settings; Set up user account; desktop shortcuts</p> <p>Set up files and software applications: Software licence; installation disks; manuals; default settings; autosave settings; secure removal/transfer of data</p> |
| | Identify what security precautions need to be addressed when connecting to the internet | |
| | Set up and configure virus protection software | |
| | Set up files and software to meet needs | |
| | Identify simple tests that can be used to check the system | System tests: Hardware and software; Print test pages, check files are saved on storage media, open and close applications; |

| Level 1 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Check that the IT system and communication service are working successfully | Identify simple communication tests that can be used to check the internet connection | <p>open and close files; access network files and applications; certificates and labelling</p> <p>Communication tests: Send and receive test email, navigate to ISP website</p> <p>Report faults: Helpdesk; information needed by experts; manufacturer's faults</p> |
| | Run tests to check that the system and communication service are working successfully | |
| | Identify how to report faults and seek expert help | |
| | Respond to error messages and report faults as appropriate | |

Imaging Software (J/502/4612)

| Level 1 | | |
|--|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Obtain, insert and combine information for images | Identify what images are needed | <p>Images: Designs will vary according to the task for example: photos from a digital camera, scanned images, graphic elements, drawings, clip art</p> <p>Prepare images: Size, crop and position</p> <p>Copyright constraints: Effect of copyright law (eg on use of other people's images), acknowledgment of sources, avoiding plagiarism, permissions</p> <p>Combine information: Insert, size, position, wrap, order, group</p> <p>Context and images: Contexts will vary according to the software and task, for example: on screen display, publishing on a web site, hard copy print out, digital file</p> <p>File formats and images: Will vary according to the content, proprietary and open source formats</p> <p>Store and retrieve: Files (eg create, name, open, save, save as, print, close, find)</p> |
| | Obtain, input and prepare images to meet needs | |
| | Identify what generic copyright and other constraints apply to the use of images | |
| | Combine information of different types or from different sources for images | |
| | Identify the context in which the images will be used | |
| | Identify which file format to use for saving and exchanging images | |
| | Store and retrieve files effectively, in line with local guidelines and conventions where available | |
| Use image software tools to create, manipulate and edit images | Use suitable tools and techniques to create images | <p>Create images: Draw basic shapes, change properties (eg line width and fill colour), download digital photos from a camera, scan and resize images, add text and other elements (eg lines, boxes and arrows)</p> <p>Manipulate and editing techniques: Align, rotate, flip, arrange, cut, paste, resize, change font, text and colour</p> <p>Check images: Size, alignment and orientation, suitability of file format</p> |
| | Use appropriate tools and techniques to manipulate and edit images | |
| | Check images meet needs, using IT tools and making corrections as necessary | |

Improving Productivity using IT (T/502/4153)

| Level 1 | | |
|---|---|----------|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | Identify the purpose for using IT | |

| Level 1 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Plan the use of appropriate IT systems and software to meet requirements | Identify the methods, skills and resources required to complete the task successfully | <p>Purpose for using IT: Who and what the information is for, when it must be finished, what information needs to be included, where it will be used (on screen, sent to others, printed)</p> <p>Plan task: What information sources are needed, how they will be found and evaluated, what application software will be used, what skills and resources are needed to complete the task successfully, requirements for content, structure and layout</p> <p>Reasons for choosing IT: Time, convenience, cost; benefits of IT or manual methods of preparing, processing and presenting the same information; own views on convenience and effectiveness at meeting needs, quality, accuracy; how IT can make tasks easier than other methods, streamline business processes, increase productivity</p> <p>Legal or local guidelines or constraints: May include data protection, copyright, software licensing, security; organisational house-style or brand guidelines</p> |
| | Plan how to carry out the task using IT to achieve the required purpose and outcome | |
| | Identify reasons for choosing particular IT systems and software applications for the task | |
| | Select IT systems and software applications as appropriate for the purpose | |
| | Identify any legal or local guidelines or constraints that may affect the task or activity | |
| Use IT systems and software efficiently to complete planned tasks | Identify automated routines to improve productivity | <p>Automated routines: Short cuts, customised menus and tool bars, run pre-set macros, templates</p> |
| | Use automated routines that aid efficient processing or presentation | |
| | Complete planned tasks using IT | |
| Review the selection and use of IT tools to make sure that work activities are successful | Review outcomes to make sure they meet the requirements of the task and are fit for purpose | <p>Review outcomes: Quality of information used, produce drafts, review against initial plans, check with intended audience</p> <p>IT tools selection: Time taken, convenience, cost, quality, accuracy</p> <p>Strengths and weaknesses: Format, layout, accuracy, clarity for audience</p> <p>Improvements to work: Correct mistakes, avoid affecting other people's work, better ways of doing things, learning new techniques</p> |
| | Decide whether the IT tools selected were appropriate for the task and purpose | |
| | Identify the strengths and weaknesses of the completed task | |
| | Identify ways to make further improvements to work | |

IT Communication Fundamentals (Y/502/4291)

| Level 1 | | |
|--|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Use a variety of sources of information to meet needs | Use appropriate sources of IT-based and other forms of information to meet needs | Sources of information: Newspapers, books, images, maps, conversations, CDs, DVDs, text messages, podcasts, Internet, intranet, web logs, web based reference sites |
| | Identify different features of information | Features of information: Factual information, creative work, opinions, information that is continually updated (or live), interactive information, guides and directories |
| | Recognise copyright constraints on the use of information | Copyright constraints: Effect of copyright law (eg on music downloads or use of other people's images), acknowledgment of sources, avoiding plagiarism, permissions |
| Access, search for, select and use Internet-based information and assess its fitness for purpose | Access, navigate and search Internet sources of information purposefully and effectively | Access, navigate and search: Enter a web address, use a search engine, browse, save and use bookmarks |
| | Use appropriate search techniques to locate and select relevant information | Search techniques: Search key words, quotation marks, search within results, relational operators, 'find' or search tool, turn questions into key words for an online query |
| | Outline how the information meets requirements and is fit for purpose | Evaluate information: Recognise intention and authority of provider, currency of the information, relevance, accuracy, bias, level of detail |
| Select and use IT to communicate and exchange information | Create, access, read and respond appropriately to email and other IT-based communication | Email and other IT-based communications: Open mailbox, read, reply to individuals, reply to all, reply with history, delete messages, use group list, forward; communicate using from, to, cc, bcc; subject and content fields, add and open attachments, use instant messaging, contribute to forums, web conferences, web logs or web based reference sites |
| | Use IT tools to maintain an address book and schedule activities | Address book: Add, amend and delete contact entries, contacts list |

| Level 1 | | |
|--|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | | Schedule activities: Task list; calendar; send and respond to meeting invitations |

IT Software Fundamentals (L/502/4384)

| Level 1 | | |
|--|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Select and use software applications to meet needs and solve problems | Identify different software applications and give examples of their use | <p>Software applications: Types: word processing, spreadsheet, graphics, Internet browser, e-mail, audio and video software</p> <p>Use: open and close applications; switch between applications</p> <p>Types of information: Text, numbers, images, graphics, sound, data records</p> |
| | Select and use appropriate software applications to develop, produce and present different types of information to meet needs and solve problems | |
| | Identify what types of information are needed | |
| Enter, develop and format different types of information to suit its meaning and purpose | Enter, organise and format different types of information to meet needs | <p>Organise information: Headings, lists, tables, use of templates, sort, charts and graphs, records, simple calculations</p> |
| | Apply editing techniques to refine information as required | <p>Format information: Formatting techniques appropriate to the type of information, for example:</p> |
| | Combine information of different forms or from different sources to meet needs | Text – bullets, numbering, alignment, tabs, line spacing, colour, font, style, size, simple tables |
| | Select and use appropriate page layout to present information effectively | <p>Numbers – currency, percentages, number of decimal places</p> <p>Images – size, position</p> <p>Editing techniques: Editing techniques appropriate to the type of information, for example: select, copy, cut, paste, undo, redo, drag and drop, find, replace, insert, delete, size, crop, position</p> <p>Combine information: Combine images with text (eg photo with caption); presentation with audio and/or video; numbers with charts and graphs</p> <p>Page layout: Size, orientation, margins, page breaks, page numbers, headers, footers, date and time</p> |
| Present information in ways that are fit for purpose and audience | Work accurately and proof-read, using software facilities where appropriate for the task | <p>Work accurately and proof-read: Ensure meaning is clear, seek views of others, check spelling, check calculations, ensure consistent layout, print preview</p> |
| | Produce information that is fit for purpose and audience using commonly accepted layouts as appropriate | <p>Information fit for purpose: Letter, memo, report, newsletter, poster, information sheet, webpage, multi-media presentation, budget, invoice, stock list</p> |

| Level 1 | | |
|--|--|---|
| Learning outcomes | Assessment Criteria | Examples |
| The learner will.... | The learner can... | |
| Make effective use of IT tools and facilities to present information | Review and modify work as it progresses to ensure the result is fit for purpose and audience | IT tools selection: Time taken, convenience, cost, quality, accuracy |
| | Review the effectiveness of the IT tools selected to meet presentation needs | Review and modify work: Evaluate the quality of the information used, produce drafts, review against initial plans, check with intended audience |

Multimedia Software (Y/502/4615)

| Level 1 | | |
|--|--|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Plan the content and organisation of multimedia products to meet needs | Use simple techniques to plan the content and organisation of multimedia product | <p>Plan and communicate: Flow chart, storyboard, sketches</p> <p>Multimedia outcome: Website, CD ROM, animation sequence, presentation</p> <p>Specification: No of pages, features, audience, types of content</p> <p>Copyright constraints: Effect of copyright law (eg on music downloads or use of other people's images), acknowledgment of sources, avoiding plagiarism, permissions</p> |
| | Identify the type of multimedia outcome to meet requirements | |
| | Identify what is required in the specification | |
| | Identify copyright or other constraints for using others' information | |
| Obtain, input and combine content to build multimedia outcomes | Select and use an appropriate input device to enter content for multimedia outcomes | <p>Input device: Keyboard skills, keyboard shortcuts, mouse Other input methods: voice recognition, touch screen, stylus, digital video or still camera, Dictaphone, microphone</p> <p>Combine information: Insert, size, position, wrap, order, group</p> <p>File format for multimedia outcomes: Will vary according to the content, for example jpg for Internet photo display, png for Internet drawing display, svg for graphic designs (the ISO standard most likely to be fully supported by web browsers)</p> <p>Store and retrieve: Files (eg create, name, open, save, save as, print, close, find)</p> |
| | Combine information of different types or from different sources for multimedia outcomes | |
| | Identify the file format and storage media to use | |
| | Select and use appropriate software to write multimedia files | |
| | Store and retrieve multimedia files effectively, in line with local guidelines and conventions where available | |
| Use multimedia software tools to edit and format multimedia content to meet requirements | Select and use appropriate techniques to edit and format multimedia outcomes | <p>Edit multimedia outcomes: Size, crop and position objects, use layout guides</p> <p>Manipulate images and graphic elements: Size, crop, position, maintain proportion, border</p> <p>Styles, colours and font schemes: Existing styles and schemes</p> <p>Check multimedia outcomes: Completeness, accuracy, layout, formatting, animation, sound, sequence; review against requirements</p> |
| | Manipulate images and graphic elements accurately | |
| | Check multimedia outcomes meet needs, using IT tools and making corrections as necessary | |
| Play and present multimedia outcomes | Identify what display device to use for multimedia outcomes | Navigation techniques: Click, scroll, menus, submenus |

| Level 1 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | Use appropriate techniques to navigate and display multimedia outcomes Control the playback of multimedia files Adjust display settings to meet needs | Display of multimedia outcomes: Thumbnail, quarter screen, full screen Playback controls: Start, stop, fast forward, rewind, pause Display settings: Visual: brightness, contrast; Sound: volume, balance |

Optimise IT System Performance (D/502/4244)

| Level 1 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Maintain hardware and software in working order | Identify the operating system and capacity of the computer system | Computer system: Make, model, serial number; operating system version; memory capacity; disk capacity Security software: Anti-virus, malware. Frequency, timing |
| | Take appropriate steps to protect computer hardware against loss or damage | |
| | Run anti-virus and other security software regularly | |
| | Set up printers and other peripheral devices | |
| Manage files to maintain system performance | Use file navigation software to organise files into an appropriate folder structure | Information storage: Data files, folders, sub-folders, storage media File housekeeping: Following local guidelines and conventions for naming and labelling; organising files, folders and storage media; saving back-ups; deleting unwanted files |
| | Backup and restore files and folders | |
| | Identify why it is important to undertake routine file housekeeping of the information stored on computer systems | |
| | Carry out routine file housekeeping so that information is easy to find | |
| Respond to common IT system problems and errors | Identify common IT system problems and responses | IT system problems: Program not responding, paper jam, storage full, error dialogue Expert advice: Limits of own understanding and skills, help menus, manufacturer's guidelines, how to follow advice, information needed by experts |
| | Respond appropriately to common IT system problems | |
| | Identify where to get expert advice | |
| | Seek expert advice when appropriate | |
| Customise the working environment to meet needs | Adjust system settings as appropriate to individual needs | System settings: Desktop, input and output settings |

Personal Information Management Software (Y/502/4369)

| Level 1 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | Create, edit and delete calendar entries | Recurring appointments: Daily, weekly, monthly, yearly |

| Level 1 | | |
|---|--|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Use a calendar to schedule appointments | Arrange recurring appointments | Invite to meetings: Check personal availability Display appointments: On screen, for print; display style (month, week, day) |
| | Invite others to meetings and monitor attendance | |
| | Respond to meeting requests from others | |
| | Create reminders for calendar appointments | |
| | Organise and display appointments as required | |
| Use a task list to prioritise activities | Create, edit and delete task information | Organise tasks: By category, status, target date; respond to task requests Task progress: Percentage completion; filters |
| | Organise and display tasks, setting targets for completion | |
| | Monitor task progress and set reminders | |
| | Report on task status and activity | |
| Use an address book to store, organise and retrieve contact information | Create, edit and delete contact information | Organise contacts: By name; customise display; selected fields; filters Responsible use: Password protection, Respect confidentiality; public profiles; trust, data protection |
| | Organise and display contact information | |
| | Set up a distribution list | |
| | Describe why it is important to use personal data responsibly and safely | |
| | Outline why and how to keep contact information up to date | |

Presentation Software (K/502/4621)

| Level 1 | | |
|---|--|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Input and combine text and other information within presentation slides | Identify what types of information are required for the presentation | Types of information: Text, numbers, images, graphics, sound Constraints: On content: copyright law (eg on music downloads or use of other people's images), acknowledgment of sources, avoiding plagiarism; equal opportunities; local guidelines Combine information for presentations: Combine images, charts or tables with text by inserting, re-sizing and positioning; use of text boxes Store and retrieve: Files (eg create, name, open, save, save as, print, close, find) |
| | Select and use different slide layouts as appropriate for different types of information | |
| | Enter information into presentation slides so that it is ready for editing and formatting | |
| Use presentation software tools to structure, edit and format slides | Store and retrieve presentation files effectively, in line with local guidelines and conventions where available | Slide structure: Layout; use existing templates, designs and styles; organisational guidelines Edit slides: Drag and drop, find, replace, undo/redo, size, crop and position objects; wrap text, add lines and simple shapes Format slides: Bullets, numbering, line spacing, alignment, colour, fonts, size, backgrounds |
| | Select and use an appropriate template to structure slides | |
| | Select and use appropriate techniques to edit slides | |
| | Identify what slide structure to use | |
| Prepare slides for presentation to meet needs | Select and use appropriate techniques to format slides | Present slides: Timing, content, meaning; organisation of information; audience needs Prepare slides: View, re-order, rehearse timing, print slides, print handouts; speaker notes Check presentation: Spell check, grammar check, orientation, layout, slide order, text alignment and formatting, accuracy |
| | Identify how to present slides to meet needs and communicate effectively | |
| | Prepare slides for presentation | |
| | Check presentation meets needs, using IT tools and making corrections as necessary | |

Project Management Software (K/502/4618)

| Level 1 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Create and define a project | Identify the main components of the project management software Identify the information about the project that must be included Create a new project file using templates where appropriate Store and retrieve project management files effectively in line with local guidelines for storage and use of data where applicable | Project information: Tasks, timescales, resources, stages; Source of information: provided by the person responsible for the project Store and retrieve: Files (eg create, name, open, save, save as, print, close, find) |
| Enter and edit information about project tasks and resources | Identify types of tasks, milestones, deadlines and constraints Enter and edit information about project tasks Identify time and resources required for the project Apply a task calendar for scheduling tasks Enter and edit information about resources for use in the project Mark any dependencies between tasks Assign resources to tasks | Task types: Fixed cost, fixed duration, fixed work Task information: Duration, status, set reminders Task calendar: Working-time calendar, holidays Project resources: People, time, costs, equipment |
| Update information about project progress | Use editing and formatting techniques to update project elements Update task status in line with progress Update information about resources as required | Editing techniques: Editing techniques appropriate to the type of information, for example: select, copy, cut, paste, undo, redo, drag and drop, find, replace, insert, delete, size, crop, position Tasks status: Complete, in progress, not yet started |
| Select and use appropriate tools and techniques to display and report on project status | Use filtering and formatting techniques to display project information to meet needs Select and generate project reports using pre-defined formats to meet needs | Project reports: Task progress, project progress, resource allocation and usage, costs Display project information: Task lists, resource assignment |

IT Security for Users (R/502/4256)

| Level 1 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Use appropriate methods to minimise security risks to IT systems and data | Identify security issues that may threaten system performance | <p>Threats to system performance: Unwanted e-mail (often referred to as “spam”), malicious programs (including viruses, worms, trojans, spyware, adware and rogue diallers) and hackers; hoaxes</p> <p>Security precautions: Use access controls: Physical controls, locks, passwords, access levels; Run anti-virus software, adjust firewall settings, adjust internet security settings; carry out security checks, report security threats or breaches; backup; store personal data and software safely; treat messages, files, software and attachments from unknown sources with caution</p> <p>Threats to information security: From theft, unauthorised access, accidental file deletion, use of removable storage media; malicious programs (including viruses, worms, trojans, spyware, adware and rogue diallers), hackers, phishing and identity theft; unsecured and public networks, default passwords and settings, wireless networks, Bluetooth, portable and USB devices</p> <p>Access to information sources: Username and password/PIN selection, how and when to change passwords; online identity/profile; Real name, pseudonym, avatar; what personal information to include, who can see the information; Respect confidentiality, avoid inappropriate disclosure of information</p> <p>Security guidelines and procedures: Set by: employer or organisation; security, privacy</p> |
| | Take appropriate security precautions to protect IT systems and data | |
| | Identify threats to information security associated with the widespread use of technology | |
| | Take appropriate precautions to keep information secure | |
| | Follow relevant guidelines and procedures for the secure use of IT | |
| | Describe why it is important to backup data securely | |
| | Ensure personal data is backed up to appropriate media | |

Specialist Software (L/502/4398)

| Level 1 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Input, organise and combine information using specialist software | Input relevant information accurately into existing templates and/or files so that it is ready for processing | <p>Types of bespoke information: Information will vary according to the software for example, text, numbers, photos, scanned images, graphic elements, digital recorded sound, graphs, charts, tables</p> <p>Inputting information: Inputting tools and techniques will vary according to the technology being used: for example, interface devices (eg keyboard, mouse, stylus, touch screen), microphone (eg headset, built-in), camera (eg web cam, video camera, mobile phone camera)</p> <p>Combining information techniques: Insert, size, position, wrap, order, group</p> <p>Guidelines for the storage and use of data: Set by employer or organisation. Policies relating to security, backup and data protection; guidelines for data format; compliance, audit and reporting requirements. File management will vary according to the application.</p> |
| | Organise and combine information of different forms or from different sources | |
| | Follow local and/or legal guidelines for the storage and use of data where available | |
| | Respond appropriately to data entry error messages | |
| Use tools and techniques to edit, process, format and present information | Use appropriate tools and techniques to edit, process or format information | <p>Editing, analysis and formatting techniques: Techniques will vary according to the software and task, for example:</p> <p>Editing – select, insert, delete, cut, copy, paste, drag and drop, find, replace, page layout, labelling, alignment, orientation, colour, resolution, size, pitch</p> <p>Process – sort, pre-set queries, simple operator formulas, charts and graphs</p> <p>Formatting – characters, lines, paragraphs, pages, file type</p> <p>Check bespoke information: Checks will vary according to the type of information and software, but could include: spell check, grammar check, accuracy of figures, labelling and size of images, volume of sound</p> |
| | Check information meets needs, using IT tools and making corrections as necessary | |
| | Use appropriate presentation methods and accepted layouts | |

| | | |
|--|--|--|
| Level 1 | | |
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | | Presentation methods: Methods will vary according to the software and task, for example, on screen display, publishing on a web site, hard copy print out, digital file; organisational house style, branding |

Using Collaborative Technologies (A/502/4378)

| Level 1 | | |
|--|--|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Stay safe and secure when using collaborative technology | Follow guidelines for working with collaborative technology | <p>Guidelines for using collaborative technology: Guidelines set by your organisation or community of interest; about uses, security, safety, copyright, plagiarism, libel, confidentiality and data protection</p> <p>Risks when working with collaborative technologies: Inappropriate disclosure of personal information, misuse of images, appropriate language, respect confidentiality, copy lists, what to do in a power cut, about data loss</p> <p>Checks on others' identities and different types of information: Compare sources, cross references</p> <p>Methods to promote trust: Contact information, membership of professional bodies, recommendations, links</p> |
| | Identify risks in using collaborative technology and why it is important to avoid them | |
| | Carry out straightforward checks on others' online identities and different types of information | |
| | Identify when and how to report online safety and security issues | |
| Set up and access IT tools and devices for collaborative working | Identify what methods are used to promote trust | <p>Connect and configure collaborative technologies: Connect to another site, check whether both sites are connected</p> <p>Purposes for collaborative working: Will vary according to the task, but may include: sharing, displaying and recording information, discussing and reflecting, establishing identity, joining interest groups, developing ideas, contributing to research</p> <p>Outcomes of collaborative working: Measurable (eg document, minutes, notes, project plan, transcript); ephemeral (g conversation, agreement);</p> <p>Collaborative technology tools and devices: Hardware: mobile, laptop, desktop, peripherals (eg headset, handset, microphone, camera, 3G modem); Software: products, services, sites</p> <p>Communication media: Text, audio/spoken, still/video/animated images</p> |
| | Set up IT tools and devices that will enable you to contribute to collaborative work | |
| | Identify the purpose for using collaborative technologies and expected outcomes | |
| | Identify which collaborative technology tools and devices to use for different communication media | |
| Prepare collaborative technologies for use | Identify what terms and conditions apply to using collaborative technologies | <p>Access to collaborative technologies: Download software, agree terms and conditions, register or set up an ID</p> <p>Adjust settings: Hardware – colour, type size, window size, volume; Browser – cookies, pop-ups; Security settings – firewall</p> |
| | Use given details to access collaborative technologies needed for a collaborative task | |
| | Adjust basic settings on collaborative technologies | |

| Level 1 | | |
|--|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | Change the environment of collaborative technologies Set up and use a data reader to feed information Identify what and why permissions are set to allow others to access information | Environments for collaborative technologies: User interface – choose skins, templates; work environment – lighting, position of devices Permissions: Web address, phone number, user name and password, access code |
| Contribute to tasks using collaborative technologies | Contribute responsibly and actively to collaborative working Contribute to producing and archiving the agreed outcome of collaborative working Identify when there is a problem with collaborative technologies and where to get help Respond to simple problems with collaborative technologies | Contributing responsibly: Follow the rules of 'netiquette', respect others contributions, avoid dominating and not responding Archiving collaborative outcomes: Cut, paste, save Problems with collaborative technologies: Routine (eg settings, software not responding, hardware connections) Respond to problems: Follow on screen help, know who to ask for expert help |

Using Email (J/502/4299)

| Level 1 | | |
|--|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Use email software tools and techniques to compose and send messages | Use software tools to compose and format email messages | <p>Compose and format e-mail: Format text (font, size, colour), format paragraphs, spell check</p> <p>Send e-mail: To, from, cc, subject; Reply, reply all, forward</p> <p>Receive e-mail: Open message, open attachment</p> <p>Stay safe: Avoid inappropriate disclosure of personal information, avoid misuse of images, use appropriate language, respect confidentiality, use copy lists with discrimination</p> <p>Address book: Add, edit, delete contact entries; distribution list</p> |
| | Attach files to email messages | |
| | Send email messages | |
| | Identify how to stay safe and respect others when using email | |
| Manage incoming email effectively | Use an address book to store and retrieve contact information | <p>Guidelines and procedures: Set by employer or organisation, security, copyright; netiquette; password protection</p> <p>E-mail responses: Decide on priorities, gather information needed to respond, decide when and who to copy in, what to do about attachments</p> <p>Organise and store e-mail: Folders, subfolders, delete unwanted messages, backup, address lists</p> |
| | Follow guidelines and procedures for using email | |
| | Identify when and how to respond to e- mail messages | |
| | Read and respond to email messages appropriately | |
| | Identify what messages to delete and when to do so | |
| | Organise and store email messages | |
| Respond appropriately to common email problems | | |

Using Mobile IT Devices (H/502/4374)

| Level 1 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Set up the mobile device to meet needs | Set up the mobile device for use | <p>Set up mobile device: Charging battery; Access (eg password, login); SIM card, connection (eg phone, Internet, cable)</p> <p>Mobile device interface features: Display, menu, submenu, toolbar, icon, button, keypad, wheel; start and shutdown</p> <p>Device settings: Resolution (eg screen, image), sound (eg mute, volume, ringtone), appearance (eg colour, theme)</p> <p>Guidelines and procedures: Set by: employer or organisation, About: health and safety, security, copyright</p> |
| | Use mobile device interface features effectively | |
| | Identify when and how to adjust device settings | |
| | Adjust device settings to meet needs | |
| | Identify any specific health and safety issues associated with the use of mobile devices | |
| Use applications and files on the mobile device | Identify the different applications on the mobile device and what they can be used for | <p>Mobile applications: Phone, camera, address book, calendar, media, browser, games, notes, messages, office applications</p> <p>Applications and files: Games and interactive material, documents, music files, video animations, image slideshows and presentations, emails, Internet pages, collaborative tools; pdf documents, Office documents, e-books, Flash animations;</p> <p>Input data: Touch screen, stylus, keypad, voice command; Create products on the device (documents such as text notes or email, files such as sound recording, image or video capture)</p> <p>Store and retrieve data: Files (eg create, name, open, save, save as, print, close, find), folders (eg create, name), navigate (eg menu, tool bar, icon, scroll bar, button)</p> |
| | Select and use applications and files on the mobile device for an appropriate purpose | |
| | Input data accurately into a mobile device | |
| | Organise, store and retrieve data on a mobile device | |
| Transfer data to and from the mobile device | Identify different types of secure connection methods that can be used between devices | <p>Secure connection: Password control, Bluetooth, infrared, cable, device pairing; synchronisation software</p> <p>Transfer information: Export, drag and drop, SMS, synchronise; when transfer successful</p> <p>Copyright constraints: Effect of copyright law (eg on music downloads or use of other people's images), acknowledgment of sources, avoiding plagiarism, permissions</p> |
| | Transfer information to and from a mobile device | |
| | Recognise copyright and other constraints on the use and transfer of information | |
| | Identify why it is important to stay safe, keep information secure and to respect others when using a mobile device | |

| Level 1 | | |
|---|--|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | Keep information secure when using a mobile device | <p>Staying safe: Protect personal information, avoid misuse of images, use appropriate language, respect confidentiality, use copy lists with discrimination</p> <p>Keep information secure: Username and password/PIN selection; online identity/profile; real name, pseudonym, avatar, what personal information to include, who can see the information, withhold personal information</p> |
| Maintain the performance of the mobile device | Identify factors that can affect performance of the mobile device | Mobile device performance: Battery life; application and file use; device maintenance; network availability, interference |
| | Use appropriate techniques to maintain the performance of the mobile device | Maintain performance: Carry out routine maintenance (battery charging, cleaning of handset, communication settings such as Bluetooth or Wi-Fi turned off when not in use; closing applications after use |
| | Identify common problems that occur with mobile devices and what causes them | Mobile device problems: Compatibility between files, systems and connections; connection lost, card full; low bandwidth |
| | Identify when to try to solve a problem and where to get expert advice | Expert advice: Limits of own understanding and skills, help menus, manufacturer's guidelines, how to follow advice, information needed by experts |
| | Use available resources to respond quickly and appropriately to common device problems | |

Using the Internet (T/502/4296)

| Level 1 | | |
|---|--|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Connect to the Internet | Identify different types of connection methods that can be used to access the Internet | Connection methods: LAN, VPN; mobile phone, modem, router, wireless, dial-up, broadband; Obtaining access: ISP, user name, password; hardware and software requirements |
| | Access the Internet or Intranet | |
| Use browser software to navigate web pages | Use browser tools to navigate webpages | Browser tools: Enter, back, forward, refresh, stop, history, new window, new tab. Toolbar, search bar, address bar; home, go to, follow link, URL Browser settings: Homepage, autofill, security, pop-ups, appearance, privacy; search engine; toolbars, zoom |
| | Identify when to change browser settings to aid navigation | |
| | Adjust browser settings to meet needs | |
| | Use browser help facilities | |
| Use browser tools to search for information from the Internet | Select and use appropriate search techniques to locate information | Search techniques: Search key words, quotation marks, search within results, relational operators, 'find' or search tool, turn questions into key words for an online query Information requirements: Recognise intention and authority of provider, currency of the information, relevance, accuracy, bias, level of detail References: History, favourites, bookmarks; links; log useful sites Download information: Webpage, website; Images, text, numbers, sound, games, video, TV, music |
| | Outline how information meets requirements | |
| | Use references to make it easier to find information another time | |
| | Download and save different types of information from the Internet | |
| Use browser software to communicate information online | Select and use tools and techniques to communicate information online | Communicate information: Saved information (pod-casts, text, images), real time information (blogs, instant messaging) Share information sources: Send link, send webpage Submit information: Fill-in and submit web forms; ratings, reviews, recommendations; wikis; discussion forums; interactive sites; netiquette |
| | Use browser tools to share information sources with others | |
| | Submit information online using forms or interactive sites | |
| | Identify opportunities to post or publish material to websites | |
| Follow and understand the need for safety and security | Identify the threats to user safety when working online | Safety precautions: Firewall settings, Internet security settings; report inappropriate behaviour; report security threats or |

| Level 1 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| practices when working online | Outline how to minimise internet security risks | breaches; netiquette, content filtering, avoid inappropriate disclosure of information |
| | Work responsibly and take appropriate safety and security precautions when working online | Threats to user safety: Abusive behaviour (“cyber bullying”), inappropriate behaviour and grooming; abuse of young people; false identities; financial deception; identity theft |
| | Keep personal information secure | Information security: Username and password/PIN selection, online identity/profile; Real name, pseudonym, avatar; What personal information to include, who can see the information; withhold personal information |
| | Follow relevant laws, guidelines and procedures for the use of the Internet | <p>Minimise risk: Virus-checking software, anti-spam software, firewall; treat messages, files, software and attachments from unknown sources with caution</p> <p>Laws, guidelines and procedures: Set by employer or organisation relating to health and safety, security; Laws: relating to copyright, software download and licensing</p> |

Video Software (K/502/4392)

| Level 1 | | |
|--|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Use video hardware and software to capture sequences | Identify the input device and associated software to use | <p>Input devices: Webcam, video camera, mobile phone; Input techniques: Copy and paste, screen grabs/shots, file download (eg connect USB lead, drag and drop)</p> <p>File format: Supported by the software used (eg mpeg, png, wmv, quicktime)</p> <p>Store and retrieve: Files (eg create, name, open, save, save as, print, close, find)</p> |
| | Use input devices and built-in video software to record information to meet needs | |
| | Identify the file format used by the input device | |
| | Store and retrieve sequences using pre- set file formats, in line with local guidelines and conventions where available | |
| Use video software tools to combine and edit sequences | Identify the video editing software to use for the file format | <p>Sequence: Specially recorded, existing; short (eg less than 2 mins), mode (eg b&w)</p> <p>Combine information: Audio clips into presentations;</p> <p>Techniques: Copy and paste, insert, screen grabs/shots;</p> <p>Forms of information: moving images, sound (eg spoken word, music, sound effects)</p> <p>Copyright constraints: Effect of copyright law (eg on music downloads or use of other people's images), acknowledgment of sources, avoiding plagiarism, permissions</p> |
| | Cut and paste short sequences to meet needs | |
| | Combine information of different forms or from different sources, in line with any copyright constraints | |
| | Identify copyright constraints on using others' information | |
| Play and present video sequences | Identify appropriate playback software to use for the sequence | <p>Display device: PC, laptop, video camera, mobile phone, handheld video device (eg mp3 player, iPod)</p> <p>Adjust playback and display settings: Playback controls (eg start, stop, fast forward, rewind, pause); sound (eg volume); screen size (eg thumbnail, quarter screen, full screen); visual (eg contract, brightness, colour, b&w)</p> |
| | Identify the display device to use for the sequence | |
| | Select and use appropriate combination of software and display device to playback video sequences | |
| | Adjust playback and display settings so that sequences are presented to meet needs | |

Spreadsheet Software (A/502/4624)

| Level 1 | | |
|--|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Use a spreadsheet to enter, edit and organise numerical and other data | Identify what numerical and other information is needed and how the spreadsheet should be structured to meet needs | <p>Numerical and other information: Numbers, charts, graphs, text</p> <p>Spreadsheet structure: Spreadsheet components (e.g. cells, rows, columns, tabs, pages, charts) and their layout</p> <p>Enter and edit: Enter data into existing spreadsheet, create new spreadsheet, insert information into single cells, clear cells, edit cell contents, replicate data, find and replace, add and delete rows and columns</p> <p>Store and retrieve: Save, save as, find, open, close</p> |
| | Enter and edit numerical and other data accurately | |
| | Store and retrieve spreadsheet files effectively, in line with local guidelines and conventions where available | |
| Use appropriate formulas and tools to summarise and display spreadsheet information | Identify how to summarise and display the required information | <p>Summarise and interpret: Totals and summary information; sorting and display order; lists, tables, graphs and charts. Judgment of when and how to use these methods</p> <p>Functions and formulas: Simple arithmetic formulas (add, subtract, multiply, divide), common functions (e.g. Sum, Average, Round). Design of formulas to meet calculation requirements.</p> |
| | Use functions and formulas to meet calculation requirements | |
| | Use spreadsheet tools and techniques to summarise and display information | |
| Select and use appropriate tools and techniques to present spreadsheet information effectively | Select and use appropriate tools and techniques to format spreadsheet cells, rows and columns | <p>Format cells: Numbers, currency, percentages, number of decimal places, font and alignment, borders and shading</p> <p>Format rows and columns: Height, width, borders and shading</p> <p>Chart or graph type: Pie chart, bar chart, single line graph</p> <p>Format charts and graphs: Title, chart type, axis titles, legend</p> <p>Page layout: Size, orientation, margins, page numbers, date and time</p> <p>Check spreadsheet information:</p> |
| | Identify which chart or graph type to use to display information | |
| | Select and use appropriate tools and techniques to generate, develop and format charts and graphs | |
| | Select and use appropriate page layout to present and print spreadsheet information | |
| | Check information meets needs, using spreadsheet tools and making corrections as necessary, which chart or graph type to use to display information | |

| | | |
|--|--|---|
| Level 1 | | |
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | | Accuracy of numbers, formulas and any text; accuracy of results; suitability of charts and graphs |

Website Software (L/502/4630)

| Level 1 | | |
|--|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Plan and create web pages | Identify what content and layout will be needed in the web page | <p>Content and layout: Web page content and layout will vary according to the template, but may include: text (eg body text, headings, captions), images (eg still photographs, diagrams), numbers (eg tables, charts or graphs), background (eg colours, gradients, patterns, textures)</p> <p>Web site templates: Design lay out will vary according to the template, but may include: text (eg body text, headings, captions), images (eg still photographs, diagrams), numbers (eg tables, charts or graphs), background (eg colours, gradients, patterns, textures)</p> <p>Combine information: Combine images with text (eg photo captions); presentation with audio and/or video; numbers with charts and graphs</p> <p>Copyright constraints: Effect of copyright law (eg on music downloads or use of other people's images), acknowledgment of sources, avoiding plagiarism, permissions</p> <p>File types: Text (eg rtf, doc, pdf), images (eg jpeg, tiff, psd), charts and graphs (eg xls), sound (eg wav, MP3)</p> <p>Store and retrieve: Files (eg create, name, open, save, save as, print, close, find)</p> |
| | Identify the purpose of the webpage and intended audience | |
| | Select and use a website design template to create a single web page | |
| | Enter or insert content for web pages so that it is ready for editing and formatting | |
| | Organise and combine information needed for web pages | |
| | Identify copyright and other constraints on using others' information | |
| | Identify what file types to use for saving content | |
| | Store and retrieve web files effectively, in line with local guidelines and conventions where available | |
| Use website software tools to structure and format web pages | Identify what editing and formatting to use to aid both clarity and navigation | <p>Website features: Web page features will vary, but may include: navigation (eg action buttons, links, hot spots)</p> <p>Editing techniques: Editing techniques will vary in line with the type of information, for example: select, copy, cut, paste, undo, redo, drag and drop, find, replace, size, crop, position</p> <p>Check web pages: Spell check, grammar check, word count; image size, alignment and orientation; suitability of file format</p> |
| | Select and use website features to help the user navigate simple websites | |
| | Use appropriate editing and formatting techniques | |
| | Check web pages meet needs, using IT tools and making corrections as necessary | |
| Publish web pages to the Internet or an intranet | Upload content to a website | <p>Upload and publish website: Upload content to a template</p> <p>Website testing: View web page using browser software</p> |
| | Respond appropriately to common problems when testing a web page | |

| Level 1 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | | <p>Problems with websites: Problems may vary, but could include: content that is not appropriate for the template or missing, text that is not readable or missing, images that are oriented or sized wrongly</p> |

Word Processing Software (L/502/4627)

| Level 1 | | |
|---|--|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Enter, edit and combine text and other information accurately within word processing document | Identify what types of information are needed in documents | <p>Types of information: Text, numbers, images, other graphic elements (eg lines, borders)</p> <p>Keyboard or other input method: Keyboard skills: using the full range of keys, typing accurately and efficiently, keyboard shortcuts Other input methods: voice recognition, touch screen, stylus</p> <p>Editing tools: Editing tools appropriate to the type of information, for example: select, copy, cut, paste, undo, redo, drag and drop, find, replace, insert, delete, size, crop, position</p> <p>Store and retrieve: Files (eg create, name, open, save, save as, print, close, find)</p> |
| | Identify what templates are available and when to use them | |
| | Use keyboard or other input method to enter or insert text and other information | |
| | Combine information of different types or from different sources into a document | |
| | Enter information into existing tables, forms and templates | |
| | Use editing tools to amend document content | |
| | Store and retrieve document files effectively, in line with local guidelines and conventions where available | |
| Structure information within word processing documents | Create and modify tables to organise tabular or numeric information | Tables: Add table, insert and delete rows and columns, adjust column width |
| | Select and apply heading styles to text | |
| Use word processing software tools to format and present documents | Identify what formatting to use to enhance presentation of the document | <p>Format characters: Size, font style (typeface), colour, bold, underline and italic</p> <p>Format paragraphs: Alignment, bullets, numbering, line spacing, borders, shading</p> <p>Page layout: Size, orientation, margins, page breaks, page numbering; standard document layouts (eg letter, memo)</p> <p>Check word processed documents: Spell check, grammar check, typeface and size, page layout, margins, line and page breaks, tables, print preview, accuracy, consistency</p> |
| | Select and use appropriate techniques to format characters and paragraphs | |
| | Select and use appropriate page layout to present and print documents | |
| | Check documents meet needs, using IT tools and making corrections as necessary | |

Internet Safety for IT Users (H/502/9154)

| Level 1 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Understand the risks that can exist when using the Internet | Identify risks to user safety and privacy | User safety and privacy (eg abusive behaviour [“cyberbullying”], inappropriate behaviour and grooming, abuse of young people, false identities, financial deception) Risks to data security (eg theft of data, hacking, accidental deletion or change to data, Trojans, spyware, adware, phishing, identity theft, avatars, mobile technology – wireless and Bluetooth, default passwords, portable devices – USB devices) Risks to system performance and integrity (eg unwanted email – often referred to as “spam”, worms, viruses, spyware, adware, denial of service, hacking of systems, Trojans, spam) Minimise Internet risks (eg virus-checking software, anti-spam software, firewall, treat messages files software and attachments from unknown sources with caution, internet settings, block sites, parental controls) Reliability of information on websites (eg accuracy, currency, sufficiency, synthesise information from a variety of sources, recognise intention and authority of provider, bias, level of detail, relevance) Precautions to ensure own safety and privacy (eg selection and management of username, password or PIN, including reasons for changing passwords or PINs, length and complexity of passwords, online identity profile, access levels of information, confidentiality content filtering, proxy servers, monitoring and reporting user behaviour) Protect personal information online (eg username and password/PIN selection and management, password strength, online identity/profile, real name, pseudonym, avatar, what personal information to include, who can see the information, withhold personal information) Cyberbullying (eg chat rooms, email and instant messaging) |
| | Identify risks to data security | |
| | Identify risks to system performance and integrity | |
| | Outline how to minimise Internet risks | |
| | Outline factors that affect the reliability of information on websites | |
| Know how to safeguard self and others when working online | Take appropriate precautions to ensure own safety and privacy | |
| | Protect personal information online | |
| | Carry out checks on others' online identity | |
| | Describe the forms and features of cyberbullying | |
| | Identify when and how to report online safety issues | |
| | Identify where to get online help and information on e-safety | |
| Take precautions to maintain data security | Take appropriate precautions to maintain data security | |
| | Take appropriate precautions to maintain system performance and integrity | |
| | Use appropriate browser safety and security settings | |
| | Use appropriate client software safety and security settings | |
| Follow legal constraints, guidelines and procedures which apply when working online | Identify legal constraints on the uploading and downloading of software and other digital content | |
| | Identify legal constraints on online behaviour | |

| Level 1 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | <p>Correctly observe guidelines and procedures for the safe use of the Internet</p> | <p>Report online safety issues (eg abusive behaviour ["cyberbullying"], inappropriate behaviour and grooming, abuse of young people, false identities, financial deception)</p> <p>Help and information on e-safety (eg service provider, legal system, parental controls)</p> <p>Legal constraints on the uploading and downloading of software and other digital content (eg relating to copyright, software download and licensing, digital rights, IPR, Health and Safety, Children Legislation, Data Protection)</p> <p>Precautions to maintain data security (eg use access controls, configure anti-virus software, adjust internet security settings, carry out security checks, report security threats or breaches, backup, store personal data and software safely, treat messages files software and attachments from unknown sources with caution, proxy servers, download security software patches and updates, Loss or theft of valuable and possibly irreplaceable data, cost of replacing lost data, a range of effective backup procedures)</p> <p>Precautions to maintain system performance and integrity (eg set passwords, physical access controls – keypads or locks, anti-virus software, adjust firewall settings, carry out security checks, report security threats and breaches, back up data and software and store appropriately, identify and report possible security threats, download and install software patches and updates, treat messages files software and data from unknown sources with caution, proxy servers)</p> <p>Browser safety and security settings (eg autofill, cookies, security, pop-ups, appearance, privacy, search engine, toolbars, personalisation, accessibility, software updates, temporary file storage)</p> <p>Guidelines and procedures for the safe use of the Internet (eg set by employer or organisation relating to Health and Safety, security, equal opportunities, disability)</p> |

| Level 1 | | |
|--|--|-----------------|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | | |

Using a Computer Keyboard (J/502/9311)

| Level 1 | | |
|--|--|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Use a keyboard to enter and edit alphanumeric information accurately | Input information accurately using alphanumeric, punctuation and special character keys as required | <p>Accuracy: spell check, grammar check, language and dictionary settings, proof read</p> <p>Keys: shift key e.g. upper case, special characters; spacebar; tab key, special character keys, insert, delete, number lock</p> <p>Check and edit information: checking accuracy e.g. proof reading, spell and grammar check</p> |
| | Use shift, Ctrl, Alt, num and caps lock, spacebar, tab, and editing keys as appropriate | |
| | Check the accuracy of information, using the keyboard to edit and make corrections as required | |
| Use a keyboard to access and navigate software applications | Use keyboard controls to access, open and close software applications | <p>Navigation keys: arrows, page up, page down, home, end, cursor keys, software specific keys</p> <p>Application control: alt+tab for application switch; ctrl+esc for applications list; ctrl+w to close window, alt+F4 to close an application</p> <p>Improving efficiency: methods and shortcuts – for example: text selection, drag and drop, file saving; software specific - for example: spreadsheets, word processing, desk top publishing, web authoring</p> |
| | Use navigation keys to move around software applications | |
| | Identify how function keys and keyboard short-cuts can be used within a software application to improve efficiency | |

3.3 Level 2: Learning outcomes and assessment criteria
Audio Software (D/502/4390)

| Level 2 | | |
|---|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Use audio hardware and software to capture sequences | Identify the combination of input device and audio software to use to capture information, to avoid any compatibility issues | <p>Audio compatibility issues: Between built-in codec used by input device, available editing software, file formats</p> <p>Input devices: Microphone, Dictaphone, mobile phone; difference between analogue and digital; low and high resolution; Input techniques: Copy and paste, screen grabs/shots, file download (eg connect USB lead, drag and drop)</p> <p>File size: Small, medium, large, link between size and quality (eg small – low resolution; large – high resolution)</p> <p>File format: Proprietary formats supported by software used (eg QuickTime, RealPlayer, iTunes). Container formats: Audio (eg WAV, XMF, AIFF); Audio/video (eg 3GP, AVI, MP4, OGG, MOV)</p> <p>Information coding and compression: Codec, compression, difference between lossy and lossless compression</p> <p>Store and retrieve: Files (eg create, name, open, save, save as, print, close, find, share); version control; import/export; file size; folders (eg create, name)</p> |
| | Select and use an appropriate combination of input device and audio software to record sequences | |
| | Describe the impact file size and file format will have on saving sequences | |
| | Identify when to use different types of information coding and compression | |
| | Store and retrieve sequences using appropriate file formats and compression, in line with local guidelines and conventions where available | |
| Use audio software tools and techniques to combine and edit sequences | Identify the sequences to add, keep and remove | <p>Sequences: Short (eg 2 mins), medium length (eg 10 mins, 30 mins), colour</p> <p>Marking-up and editing tools: Preset by software, key frames, sequences; Cut, copy, paste, sequence</p> <p>Combine information: Combine images with sound (eg dub or overlay sound track onto film sequence):</p> <p>Techniques: Copy and paste, insert, screen grabs/shots, file download (eg connect USB lead, drag and drop), file transfer protocol (FTP)</p> <p>Forms of information: sound; pre-recorded, live</p> <p>Copyright constraints: Effect of copyright law (eg on music downloads or use of other people’s images), acknowledgment of sources, avoiding plagiarism, permissions</p> |
| | Select and use appropriate audio software tools to mark-up and edit sequences | |
| | Organise and combine information for sequences in line with any copyright constraints, including across different software | |
| | Describe how copyright constraints affect use of own and others’ information | |

| Level 2 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Play and present audio sequences | Select and use an appropriate combination of audio playback software and display device to suit the file format | Features and constraints: Software supported, memory, processing speed, screen resolution, data bandwidth, transmission speeds |
| | Identify the settings which could be adjusted to improve the quality of presentations | Display device: PC, laptop, Dictaphone, mobile phone, handheld audio device (eg mp3 player, iPod) |
| | Adjust playback and display settings to enhance the quality of the presentation | Audio quality issues: High or low contrast, volume, sound (eg clicks, disjoints, noise) Adjust playback and display settings: Playback controls (eg start, stop, fast forward, rewind, pause); sound (eg volume, balance) |

Bespoke Software (J/502/4397)

| Level 2 | | |
|--|--|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Input and combine information using bespoke applications | Input relevant information accurately so that it is ready for processing | <p>Types of bespoke information: Information will vary according to the software for example, text, numbers, photos, scanned images, graphic elements, digital recorded sound, graphs, charts, tables</p> <p>Inputting information: Inputting tools and techniques will vary according to the technology being used: for example, interface devices (eg keyboard, mouse, stylus, touch screen), microphone (eg headset, built-in), camera (eg web cam, video camera, mobile phone camera)</p> <p>Combining information techniques: Insert, size, position, wrap, order, group, import data, links and references to external data</p> |
| | Select and use appropriate techniques to link and combine information of different forms or from different sources within the software | |
| | Respond appropriately to data entry error messages | |
| Use appropriate structures to organise and retrieve information efficiently | Describe what functions to apply to structure and layout information effectively | <p>Structures and layouts: Apply and change existing templates, set up templates for inputting or retrieving information, apply or change existing styles</p> <p>Guidelines for the storage and use of data: Set by employer or organisation. Policies relating to security, backup and data protection; guidelines for data format; compliance, audit and reporting requirements File management will vary according to the application.</p> |
| | Select and use appropriate structures and/or layouts to organise information | |
| | Apply local and/or legal guidelines and conventions for the storage and use of data where available | |
| Use the functions of the software effectively to process and present information | Select and use appropriate tools and techniques to edit, process and format information | <p>Editing, analysis and formatting techniques: Techniques will vary according to the software and task, for example:</p> <p>Editing – select, insert, delete, cut, copy, paste, drag and drop, find, replace, page layout, labelling, alignment, orientation, colour, resolution, size, pitch</p> <p>Analysis – design queries, mathematical, logical or statistical functions Formatting – characters, lines, paragraphs, pages, file type</p> <p>Check information: Checks will vary according to the type of information and software, but could include: spell check, grammar check, accuracy of figures, labelling and size of images, volume of sound, quality of images and sound, that line,</p> |
| | Check information meets needs, using IT tools and making corrections as necessary | |
| | Select and use appropriate methods to present information | |

| Level 2 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | | <p>paragraph and page breaks fall appropriately, formatting is consistent, the use of headings and subheadings aid clarity, the placing of images or sound clips</p> <p>Presentation methods: Methods will vary according to the software and task, for example, on screen display, publishing on a web site, hard copy print out, digital file; organisational house style, branding</p> |

IT Communication Fundamentals (D/502/4292)

| Level 2 | | |
|--|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Select and use a variety of sources of information to meet needs | Select and use appropriate sources of IT-based and other forms of information which match requirements | <p>Sources of information: Newspapers, books, images, maps, conversations, CDs, DVDs, text messages, podcasts, Internet, intranet, web logs, web based reference sites</p> <p>Features of information: Factual information, creative work, opinions, information that is continually updated (or live), interactive information, guides and directories</p> <p>Copyright constraints: Effect of copyright law (eg on music downloads or use of other people's images), acknowledgment of sources, avoiding plagiarism, permissions</p> |
| | Describe different features of information | |
| | Recognise copyright and other constraints on the use of information | |
| Access, search for, select and use Internet-based information and evaluate its fitness for purpose | Access, navigate and search Internet sources of information purposefully and effectively | <p>Access, navigate and search: Enter a web address, use a search engine, browse save and use bookmarks</p> <p>Search techniques: Search key words, quotation marks, search within results</p> <p>relational operators, 'find' or search tool, choice of search engine, multiple search criteria, logical operators, wild cards, database query techniques</p> <p>Evaluate information: Recognise intention and authority of provider, currency of the information, relevance, accuracy, bias, level of detail, sufficiency, synthesise information from a variety of sources</p> |
| | Use appropriate search techniques to locate relevant information | |
| | Use discrimination to select information that matches requirements and is fit for purpose | |
| | Evaluate information to make sure it matches requirements and is fit for purpose | |
| Select and use IT to communicate and exchange information safely, responsibly and effectively | Create, access, read and respond appropriately to email and other IT-based communication, including attachments, and adapt style to suit audience | <p>Email and other IT-based communications: Open mailbox, read, reply to individuals, reply to all, reply with history, delete messages, use group list, forward; communicate using from, to, cc, bcc; subject and content fields, add and open attachments, use instant messaging, contribute to forums, web conferences, web logs or web based reference sites</p> |
| | Use IT tools to manage an address book and schedule activities | |

| Level 2 | | |
|---|--|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | <p>Manage storage of IT-based communication</p> <p>Describe how to respond to common IT-based communication problems</p> <p>Respond appropriately to common IT- based communication problems</p> | <p>Address book: Add, amend and delete contact entries, contacts list, distribution list; sort, display selected fields</p> <p>Schedule activities: Task list; calendar; send and respond to meeting invitations</p> <p>Storage of IT-based communications: Create and maintain message folders and sub-folders; delete unwanted messages; compress, expand and save attachments; archive and retrieve messages</p> <p>IT-based communication problems: Difficulties with attachments, e-mail from unknown or misrepresented users, inappropriate content, e-mail intended to cause problems (SPAM or chain mail), size limits, software that causes problems (viruses, spyware, key loggers)</p> |

Computerised Accounting Software (J/502/4402)

| Level 2 | | |
|--|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Access, enter and edit accounting information | Describe the sources and characteristics of accounting data | <p>Characteristics of accounting data: unique references; codes; statutory requirements; editing restrictions</p> <p>Enter accounting data: Use of data entry form and wizards; add/amend record (customer record, supplier record, nominal ledger, stock record)</p> <p>Locate and display: Search, sort, print records, filters</p> <p>Check data: Spell check, format, consistency, remove duplication, verify data; edit details; check calculations; check coding; file maintenance, check others' work</p> <p>Data entry errors: Due to field size, data type, validation checks; duplicate records, format, using help; data that does not fit parameters, alerts, reminders; problems with forms</p> <p>Security risks and procedures: Access control; authorised use, confidentiality, personal data, password protection and management, user authentication</p> <p>Guidelines for the storage and use of data: Set by employer or organisation. Policies relating to security, backup and data protection; guidelines for data format; compliance, audit and reporting requirements File management will vary according to the application.</p> |
| | Set up and create new accounting data records accurately to meet requirements | |
| | Locate and display accounting data records to meet requirements | |
| | Check data records meet needs using IT tools, making corrections as necessary | |
| | Respond appropriately to data entry error messages | |
| | Describe the risks to data security and procedures used for data protection | |
| | Apply local and/or legal guidelines for the storage and use of data | |
| Select and use tools and techniques to process business transactions | Select and use appropriate tools and techniques to enter and process transactions | <p>Process transactions: Number of items: single items, batches. Create, copy, check, save. Types of transactions may include: Post invoice; receipts; payments, journals, contra entries. From: bank statement, cheque book, paying-in book, e-commerce</p> <p>Transaction errors and problems: Duplication, accuracy, limits of own responsibility, process for reporting errors and problems</p> <p>Period end: Will vary according to task but may include: Month end, post depreciation, budgets, standing orders</p> |
| | Review transaction process and identify any errors | |
| | Respond appropriately to any transactions errors and problems | |
| | Select and use appropriate tools and techniques to process period end routines | |
| | Describe what information is required and how to present it | |

| Level 2 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Produce accounting documents and summary reports to meet requirements | Prepare and generate accounting documents | <p>Accounting documents: Will vary according to task, but may include for example: Invoice, sales order, purchase order, statement. To screen, printed, for e-mail</p> <p>Management reports: Will vary according to task, but may include for example: audit trail, trial balance; customer activity; day book, aged creditor/debtor analysis</p> <p>Export and link data: For mail merge, spreadsheet analysis, requirements for internet banking, stock control system, online ordering system, budget update; Other file formats (eg csv, xls)</p> |
| | Prepare and generate management reports as required | |
| | Import and export data and link to other systems and software | |

Data Management Software (J/502/4559)

| Level 2 | | |
|---|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Enter, edit and maintain data records in a data management system | Describe the risks to data security and procedures used for data protection | <p>Benefits of data management system: Accessible, reliable, rapid access, shared view, up-to-date, accurate, secure; simplifies data handling</p> <p>Enter data: Use of data entry form, create new record, add record to table, create new record, add record to table, select and update fields; groups of records</p> <p>Amend data records: Find, search and replace; edit record; sort, filter, use wildcards and search operators; category</p> <p>Check data records: Spell check, format, accuracy, consistency, remove duplication, verify data; data validation techniques; record housekeeping</p> <p>Error messages: Due to field size, data type, validation checks; duplicate records; format; using help; system access</p> <p>Security risks and procedures: Access control; authorised use, confidentiality, personal data, password protection and management, user authentication</p> <p>Guidelines for data storage and use: Set by: employer or organisation. Topics covered: security, backup, data format, compliance and reporting, data protection, confidentiality</p> |
| | Enter data accurately into groups of records to meet requirements | |
| | Locate and amend data associated with groups of records | |
| | Check data records meet needs, using IT tools and making corrections as necessary | |
| | Respond appropriately to data entry and other error messages | |
| | Apply local and/or legal guidelines for the storage and use of data where available | |
| Retrieve and display data records to meet requirements | Identify what queries and reports need to be run to output the required information | <p>Search and retrieve: Alphanumeric sort, filter, single criteria, multiple criteria, save queries and output</p> <p>Reports: Standard reports, customised reports; reports with multiple parameters</p> |
| | Select and use queries to search for and retrieve information to meet given requirements | |
| | Create and view reports to output information from the system to meet given requirements | |

Database Software (M/502/4555)

| Level 2 | | |
|--|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Create and modify nonrelational database tables | Identify the components of a database design | <p>Database design: What types of information are stored, use of data entry form, routine queries, how data is structured in a single table non-relational database; use of indexes and key field to organise data</p> <p>Data integrity: Unique not null primary key; field characteristics; data validation; consistency, completeness, accuracy; Effect of malicious or accidental alteration;</p> <p>Modify database table: Add/amend/delete field; field characteristics</p> <p>Field characteristics: Data type, field name, field size, format, validation; primary key</p> <p>Problems with database tables: Redundant data, duplication, table structure, field characteristics and validation; sources of help</p> |
| | Describe the field characteristics for the data required | |
| | Create and modify database tables using a range of field types | |
| | Describe ways to maintain data integrity | |
| | Respond appropriately to problems with database tables | |
| Use database tools and techniques to ensure data integrity is maintained | | |
| Enter, edit and organise structured information in a database | Create forms to enter, edit and organise data in a database | <p>Enter, edit and organise data: Select and update fields, create new records, locate and amend records; using wildcards, search operators; error checking; data validation</p> <p>Format data entry forms: Field characteristics and layout, tables, colour, lookups</p> <p>Check data entry: Spell check, format, accuracy, consistency, completeness, validity, security</p> <p>Data entry errors: Due to field size, data type, validation checks; using help; deal with data that does not fit parameters, alerts, reminders; problems with forms</p> |
| | Select and use appropriate tools and techniques to format data entry forms | |
| | Check data entry meets needs, using IT tools and making corrections as necessary | |
| | Respond appropriately to data entry errors | |
| Use database software tools to run queries and produce reports | Create and run database queries using multiple criteria to display or amend selected data | <p>Database queries: Alphanumeric sort, filter, single criteria, multiple criteria; save queries and output</p> <p>Database reports: Using menus, wizards or shortcuts; selected fields; selected records</p> <p>Formatting database reports: Data fields; page and section layout; add text or images; adjust page setup for printing</p> |
| | Plan and produce database reports from a single table non-relational database | |
| | Select and use appropriate tools and techniques to format database reports | |

| | | |
|---|--|---|
| Level 2 | | |
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | Check reports meet needs, using IT tools and making corrections as necessary | Check reports: Completeness, accuracy, security, sorting, formatting, layout |

Design Software (T/502/4573)

| Level 2 | | |
|--|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Obtain, insert and combine information for designs | Describe what designs are needed | <p>Designs: Designs will vary according to the task for example, photos from a digital camera, scanned images, graphic elements, drawings, clip art</p> <p>Prepare images: Size, crop and position</p> <p>Copyright constraints: Effect of copyright law (eg on use of other people's images), acknowledgment of sources, avoiding plagiarism, permissions</p> <p>Combine information: Insert, size, position, wrap, order, group, import data, links and references to external data</p> <p>Context for designs: Contexts will vary according to the software and task, for example: on screen display, publishing on a web site, hard copy print out, digital file</p> <p>File formats for designs and images: Will vary according to the content, for example jpg for Internet photo display, png for Internet drawing display, svg for graphic designs (the ISO standard most likely to be fully supported by web browsers)</p> <p>Digital picture format (e.g. jpeg and psd)</p> <p>Bitmap or raster picture formats (eg raw bitmaps, bmp and compressed formats jpeg and png)</p> <p>Vector graphics (eg svg, wmf, eps, ai)</p> <p>Open formats (eg html, odf, pdf and rtf)</p> <p>Proprietary formats (eg pub and qxd)</p> <p>Method of compression (lossy, non-lossy)</p> <p>Store and retrieve: Files (eg create, name, open, save, save as, print, close, find, share); version control; import/export; file size; folders (eg create, name)</p> |
| | Obtain, input and prepare designs to meet needs | |
| | Describe what copyright and other constraints apply to the use of designs | |
| | Use appropriate techniques to organise and combine information of different types or from different sources | |
| | Describe the context in which the designs will be used | |
| | Describe what file format to use for saving designs to suit different presentation methods | |
| | Store and retrieve files effectively, in line with local guidelines and conventions where available | |
| Use design software tools to create, manipulate and edit designs | Identify what technical factors affecting designs need to be taken into account and how to do so | Technical factors affecting designs: Page or canvas size; colour mode; file size and format; difference between screen and print resolution |

| Level 2 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | Select and use suitable techniques to create designs | <p>Create designs: Draw basic shapes and adjust properties (eg line width, fill colour, transparency); download digital photos from a camera; scan and resize images; add text and other elements such as lines, boxes and arrows; create more complicated designs using painting, drawing or image manipulation software</p> <p>Manipulate and editing techniques: Align, rotate, flip, arrange, cut, paste, resize, change font, text and colour, group, ungroup, change templates, filters to create special effects, orders and layers</p> <p>Check designs: Size, alignment and orientation, suitability of file format, appropriate choice of colour mode and use of filters, fitness for purpose of image resolution</p> <p>Quality problems with designs: Will vary according to the content, for example, levels, contrast, resolution</p> |
| | Use guidelines and dimensioning tools appropriately to enhance precision | |
| | Select and use appropriate tools and techniques to manipulate and edit for designs | |
| | Check designs meet needs, using IT tools and making corrections as necessary | |
| | Identify and respond to quality problems with designs to make sure that they meet needs | |

Desktop Publishing Software (D/502/4566)

| Level 2 | | |
|---|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| <p>Select and use appropriate designs and page layouts for publications</p> | <p>Describe what types of information are needed</p> | <p>Types of information: Text, images, graphics, video, sound Page design and layout: Organisation of information, size, white space, columns, consistency, orientation, proportion Local guidelines: Templates, house style, branding, publication guidelines, existing styles and schemes, refinements to styles and schemes Publication media: Web, document, multimedia</p> |
| | <p>Describe how to change page design and layout to increase effectiveness of a publication</p> | |
| | <p>Select, change and use an appropriate page design and layout for publications in line with local guidelines, where relevant</p> | |
| | <p>Select and use appropriate media for the publication</p> | |
| <p>Input and combine text and other information within publications</p> | <p>Find and input information into a publication so that it is ready for editing and formatting</p> | <p>Input information: using keyboard, mouse, scanner, voice recognition, touch screen, stylus Combine information for publications: Combine images with text and graphic elements (eg borders, lines, panels, shading, logos) import information produced using other software, reference external information with hyperlinks, object linking or embedding Copyright constraints: Effect of copyright law (eg on music downloads or use of other people's images), acknowledgment of sources, avoiding plagiarism, permissions File formats for designs and images: Will vary according to the content, for example jpg for Internet photo display, png for Internet drawing display, svg for graphic designs (the ISO standard most likely to be fully supported by web browsers) Digital picture format (e.g. jpeg and psd) Bitmap or raster picture formats (eg raw bitmaps, bmp and compressed formats jpeg and png) Vector graphics (eg svg, wmf, eps, ai) Store and retrieve: Files (eg create, name, open, save, save as, print, close, find, share); version control; import/export; file size; folders (eg create, name)</p> |
| | <p>Organise and combine information for publications in line with any copyright constraints, including importing information produced using other software</p> | |
| | <p>Describe how copyright constraints affect use of own and others' information</p> | |
| | <p>Describe which file format to use for saving designs and images</p> | |
| | <p>Store and retrieve publication files effectively, in line with local guidelines and conventions where available</p> | |
| | <p>Identify what editing and formatting to use for the publication</p> | <p>Edit publications: Drag and drop, find, replace, undo redo, size, crop and position, use layout guides</p> |

| Level 2 | | |
|--|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Use desktop publishing software techniques to edit and format publications | Select and use appropriate techniques to edit publications and format text | Format text: Existing styles and schemes for font (typeface), size, orientation, colour, alignment |
| | Manipulate images and graphic elements accurately | Manipulate images and graphic elements: Size, crop, position, maintain proportion, border |
| | Control text flow within single and multiple columns and pages | Control text flow: In columns, around images and graphic elements, between pages |
| | Check publications meet needs, using IT tools and making corrections as necessary | Check publications: Spell check; grammar check, word count, completeness, accuracy, orientation, layout, text alignment and formatting |
| | Identify and respond to quality problems with publications to make sure they meet needs | Quality problems with publications: Will vary according to the content, for example, text (eg colour, size, style), images (eg orientation, size, position, cropping) |

Drawing and Planning Software (A/502/4610)

| Level 2 | | |
|--|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Input, organise and combine information for drawings or plans | Identify what types of shapes and other elements will be needed | <p>Shapes and other elements: Shapes will vary according to the required outcome, for example: flow chart shapes, building plan shapes, audit</p> <p>Other elements: graphic elements (eg lines, arrows, borders, backgrounds, clip art), text, numbers</p> <p>Input information: Inputting tools and techniques will vary according to the technology being used: for example, interface devices (eg keyboard, mouse, stylus, touch screen), microphone (eg headset, built-in), camera (eg web cam, video camera, mobile phone camera)</p> <p>Templates and blank documents: Blank documents; existing templates, working from an example document; adapt templates, create new templates</p> <p>Copyright constraints: Effect of copyright law (eg on music downloads or use of other people's images), acknowledgment of sources, avoiding plagiarism, permissions</p> <p>Combine information: Insert, size, position, wrap, order, group</p> <p>Store and retrieve: Files (eg create, name, open, save, save as, print, close, find, share); version control; import/export; file size; folders (eg create, name)</p> |
| | Review templates and describe how they need to be changed to meet needs | |
| | Select, input and use the appropriate shapes to meet needs, including importing shapes from other sources | |
| | Select, adapt and use appropriate templates or blank documents | |
| | Identify what copyright constraints apply to the use of shapes or other elements | |
| | Combine information for drawings or plans including importing information produced using other software | |
| | Store and retrieve drawing files effectively, in line with local guidelines and conventions where available | |
| Use tools and techniques to edit, manipulate, format and present drawings or plans | Identify what drafting guides to use so that the shapes and other elements are appropriately prepared | <p>Drafting guides: Grids, snap to grid, snap to shape, rulers, guidelines</p> <p>Manipulate and edit shapes and other elements: Will vary, for example: Edit: select, insert, delete, cut, copy, paste, drag and drop, find, replace Text: font, colour, alignment Shapes: size, colour, orientation, connections to other shapes and elements, add labels</p> <p>Format shapes and other elements: Will vary, for example: text (eg font, paragraphs, text block, tabs, bullets), lines (eg width, length, colour, endings, beginnings), drawing elements (eg fill, shadow, corners), connections between shapes and other</p> |
| | Select and use appropriate software tools to manipulate and edit shapes and other elements with precision | |
| | Select and use appropriate software tools to format shapes and other elements, including applying styles and colour schemes | |
| | Check drawings or plans meet needs, using IT tools and making corrections as necessary | |

| Level 2 | | |
|---|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | <p>Identify and respond to any quality problems with drawings or plans to make sure they meet needs</p> <hr/> <p>Select and use appropriate presentation methods and accepted page layouts</p> | <p>elements. Protection: length, width, axis. Behaviour: interaction, selection highlighting</p> <p>Check drawings and plans: Spell check, grammar check, accuracy of numbers, labelling and size of shapes, connections between shapes and other elements</p> <p>Quality problems with drawings and plans: Will vary according to the content, for example, text (eg formatting, styles, positioning), shapes (eg size, position, orientation), other elements (eg scale, thickness, colour, connections), page layout</p> <p>Presentation methods: Will vary according to the task, for example, on screen display, publishing on a web site, hard copy print out, digital file; organisational house style, branding</p> |

Imaging Software (L/502/4613)

| Level 2 | | |
|--|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Obtain, insert and combine information for images | Describe what images are needed | <p>Images: Designs or images will vary according to the task for example, photos from a digital camera, scanned images, graphic elements, drawings, clip art</p> <p>Prepare images: Size, crop and position</p> <p>Copyright constraints: Effect of copyright law (eg on use of other people's images), acknowledgment of sources, avoiding plagiarism, permissions</p> <p>Combine information: Insert, size, position, wrap, order, group, import data, links and references to external data</p> <p>Context for images: Contexts will vary according to the software and task, for example: on screen display, publishing on a web site, hard copy print out, digital file</p> <p>File formats for images: Will vary according to the content, for example jpg for Internet photo display, png for Internet drawing display, svg for graphic designs (the ISO standard most likely to be fully supported by web browsers)</p> <p>Digital picture format (e.g. jpeg and psd)</p> <p>Bitmap or raster picture formats (eg raw bitmaps, bmp and compressed formats jpeg and png)</p> <p>Vector graphics (eg svg, wmf, eps, ai)</p> <p>Open formats (eg html, odf, pdf and rtf)</p> <p>Proprietary formats (eg pub and qxd)</p> <p>Method of compression (lossy, non-lossy)</p> <p>Store and retrieve: Files (eg create, name, open, save, save as, print, close, find, share); version control; import/export; file size; folders (eg create, name)</p> |
| | Obtain, input and prepare images to meet needs | |
| | Describe what copyright and other constraints apply to the use of images | |
| | Use appropriate techniques to organise and combine information of different types or from different sources | |
| | Describe the context in which the images will be used | |
| | Describe what file format to use for saving images to suit different presentation methods | |
| | Store and retrieve files effectively, in line with local guidelines and conventions where available | |
| Use imaging software tools to create, manipulate and edit images | Identify what technical factors affecting images need to be taken into account and how to do so | <p>Technical factors affecting images: Page or canvas size; colour mode; file size and format; difference between screen and print resolution</p> |

| Level 2 | | |
|---|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | <p>Select and use suitable techniques to create images</p> <p>Use guidelines and dimensioning tools appropriately to enhance precision</p> <p>Select and use appropriate tools and techniques to manipulate and edit for images</p> <p>Check images meet needs, using IT tools and making corrections as necessary</p> <p>Identify and respond to quality problems with images to make sure that they meet needs</p> | <p>Create images: Draw basic shapes and adjust properties (eg line width, fill colour, transparency); download digital photos from a camera; scan and resize images; add text and other elements such as lines, boxes and arrows; create more complicated designs using painting, drawing or image manipulation software</p> <p>Manipulate and editing techniques: Align, rotate, flip, arrange, cut, paste, resize, change font, text and colour, group, ungroup, change templates, filters to create special effects, orders and layers</p> <p>Check images: Size, alignment and orientation, suitability of file format, appropriate choice of colour mode and use of filters, fitness for purpose of image resolution</p> <p>Quality problems with images: Will vary according to the content, for example, levels, contrast, resolution</p> |

Improving Productivity using IT (J/502/4156)

| Level 2 | | |
|---|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| <p>Plan, select and use appropriate IT systems and software for different purposes</p> | <p>Describe the purpose for using IT</p> <p>Describe the methods, skills and resources required to complete the task successfully</p> <p>Plan how to carry out tasks using IT to achieve the required purpose and outcome</p> <p>Describe any factors that may affect the task</p> <p>Select and use IT systems and software applications to complete planned tasks and produce effective outcomes</p> <p>Describe how the purpose and outcomes have been met by the chosen IT systems and software applications</p> <p>Describe any legal or local guidelines or constraints that may apply to the task or activity</p> | <p>Purposes for using IT: Who and what the information is for, when it must be finished, what information needs to be included, where it will be used (on screen, sent to others, printed)</p> <p>Plan task: What information sources are needed, how they will be found and evaluated, what application software will be used, what skills and resources are needed to complete the task successfully, requirements for content, structure and layout, priorities</p> <p>Factors that may affect the task: Access to information, steps that need to be taken in advance, availability of time, budget and resources; audience need</p> <p>Reasons for choosing IT: Time, convenience, cost; benefits of IT or manual methods of preparing, processing and presenting the same information; own views on convenience and effectiveness at meeting needs, quality, accuracy; how IT can make tasks easier than other methods, streamline business processes, increase productivity, any difficulties people have in using IT,</p> <p>Legal or local guidelines or constraints: May include data protection, copyright, software licensing; security; organisational house-style or brand guidelines</p> |
| <p>Review and adapt the ongoing use of IT tools and systems to make sure that activities are successful</p> | <p>Review ongoing use of IT tools and techniques and change the approach as needed</p> <p>Describe whether the IT tools selected were appropriate for the task and purpose</p> <p>Assess strengths and weaknesses of final work</p> <p>Describe ways to make further improvements to work</p> <p>Review outcomes to make sure they match requirements and are fit for purpose</p> | <p>Review use of IT tools: Gather information to help make judgements, analyse information about whether the IT tools and techniques are appropriate to the task and intended outcome</p> <p>IT tools selection: Time taken, convenience, cost, quality, accuracy, range of facilities, versatility, transferability of information into other formats, speed of Internet connection, time constraints of downloading large files</p> <p>Strengths and weaknesses of final work: Format, layout, accuracy, clarity for audience, structure, style, quality</p> |

| Level 2 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | | <p>Improvements to work: Correct mistakes, avoid affecting other people's work, more efficient and effective ways of doing things, learning new techniques</p> <p>Review outcomes: Evaluate the quality of the information used, produce drafts, review against initial plans, check with intended audience, effect of own mistakes on others</p> |
| Develop and test solutions to improve the ongoing use of IT tools and systems | Review the benefits and drawbacks of IT tools and systems used, in terms of productivity and efficiency | <p>Ways to improve productivity and efficiency: Save time, save money, streamline work processes, increase output, improve quality of outputs; cost of solution</p> <p>Develop solutions: Set up short cuts, customise interface, record macros</p> |
| | Describe ways to improve productivity and efficiency | |
| | Develop solutions to improve own productivity in using IT | |
| | Test solutions to ensure that they work as intended | |

Multimedia Software (D/502/4616)

| Level 2 | | |
|--|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Plan the content and organisation of multimedia products to meet needs | Describe the type of multimedia outcome needed and the specification that it must meet | <p>Plan and communicate: Flow chart, storyboard, sketches</p> <p>Multimedia outcome: Website, CD ROM, animation sequence, presentation</p> <p>Specification: No of pages, features, audience, types of content, interactive elements</p> <p>Interactive features and transitions: Menus, submenus, buttons, links, pop-ups, video clips, sound clips</p> <p>Design layout: Organisation of information, size, frames, orientation, consistency</p> <p>Copyright constraints: Effect of copyright law (eg on music downloads or use of other people's images), acknowledgment of sources, avoiding plagiarism, permissions</p> |
| | Select and use appropriate techniques to plan and communicate the content, design and layout of multimedia products | |
| | Identify how the different elements of the content will be sourced and how they will relate in the design layout | |
| | Plan the use of interactive features and transitions to meet needs | |
| | Describe how copyright and other constraints affect use of own and others' information | |
| Obtain, input and combine content to build multimedia outcomes | Select and use an appropriate combination of input device, software and input techniques to obtain and input relevant content for multimedia outcomes | <p>Input device: Inputting tools and techniques will vary according to the technology being used: for example, interface devices (eg keyboard, mouse, stylus, touch screen), microphone (eg headset, built-in), camera (eg web cam, video camera, mobile phone camera)</p> <p>Combine information: Insert, size, position, wrap, order, group; import data, links and references to external data</p> <p>File format for multimedia outcomes: Will vary according to the content, for example jpg for Internet photo display, png for Internet drawing display, svg for graphic designs (the ISO standard most likely to be fully supported by web browsers)</p> <p>Store and retrieve: Files (eg create, name, open, save, save as, print, close, find, share); version control; import/export; file size; folders (eg create, name)</p> |
| | Combine information of different types or from different sources for multimedia outcomes | |
| | Describe the file format and storage media to use | |
| | Store and retrieve multimedia files effectively, in line with local guidelines and conventions where available | |
| Use multimedia software tools to edit and format | Select and use appropriate techniques to edit and format multimedia outcomes | |

| Level 2 | | |
|---|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| multimedia content to meet requirements | <p>Manipulate images and graphic elements accurately</p> <p>Check multimedia outcomes meet needs, using IT tools and making corrections as necessary</p> <p>Adjust outcomes in response to any identified quality problems</p> | <p>Edit multimedia outcomes: Size, crop and position objects, use layout guides; Existing styles and schemes for font (typeface), size, orientation, colour, alignment</p> <p>Manipulate images and graphic elements: Size, crop, position, maintain proportion, border</p> <p>Styles, colours and font schemes: Existing styles and schemes</p> <p>Check multimedia outcomes: Completeness, accuracy, layout, formatting, animation, sound, sequence; review against requirements</p> <p>Quality problems: Will vary according to the content, for example, sound (eg noise, volume), images (eg levels, contrast, unwanted content), text (eg clarity, spelling, grammar, structure)</p> |
| Play and present multimedia outcomes | <p>Described what combination of display device and software to use for displaying different multimedia file formats</p> <p>Select and use appropriate software for displaying multimedia outcomes</p> <p>Select and use appropriate navigation techniques and playback controls to suit the files</p> <p>Adjust the display settings of the software and display device to present outcomes effectively</p> | <p>Display devices: PC, laptop, mobile device, TV</p> <p>Display of multimedia outcomes: Thumbnail, quarter screen, full screen, screen resolution, data bandwidth, transmission speeds, output media</p> <p>Navigation techniques: Click, scroll, menus, submenus</p> <p>Playback controls: Start, stop, fast forward, rewind, pause</p> <p>Display settings: Visual: brightness, contrast, screen resolution, colour balance, monochrome</p> <p>Sound: volume, treble, bass, balance; Animation: speed</p> |

Optimise IT System Performance (H/502/4245)

| Level 2 | | |
|--|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Keep computer hardware and software operating efficiently | Describe the main features and functions of the computer operating system | Computer system: Make, model, serial number; operating system version; memory capacity; disk capacity Security software: Anti-virus, malware. Frequency; timing; updates, firewall settings Network settings: Remote access, connections and shared network folders, configure remote access settings, power management |
| | Take appropriate steps to protect computer hardware from loss or damage | |
| | Configure anti-virus and other security software | |
| | Install and configure printers and other peripheral devices | |
| | Configure network settings for mobile and remote computing | |
| | Configure a computer to present or display information to an audience | |
| Manage files and disks to optimise performance | Use file navigation software to organise files into an appropriate folder structure | Information storage: Data files, folders, sub-folders, storage media; archives File housekeeping: Naming and labelling conventions; organising files, folders and storage media; saving back-ups; deleting unwanted files; changing default settings for saving data; properties; disk partitions |
| | Backup and restore files and folders | |
| | Describe why it is important to undertake file housekeeping of the information stored on computer systems and how it affects performance | |
| | Manage file and disk housekeeping so that information is secure and easy to find | |
| | Share files and folders with other users | |
| | Distinguish between data and system file types | |
| Troubleshoot and respond to common IT system problems and errors | Describe common IT system problems and what causes them | IT system problems: Program not responding, paper jam, storage full, error dialogue, virus threat, memory low, connection loss Record IT system problems: Error log, description, frequency of occurrence, severity Expert advice: Limits of own understanding and skills, help menus, manufacturer's guidelines, how to follow advice, |
| | Describe and record IT system problems to enable effective support | |
| | Describe when to try to solve a problem independently, and when to get expert advice | |

| Level 2 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | Troubleshoot and respond to the IT systems appropriately Check that errors and problems have been resolved satisfactory | information needed by experts, where to get advice to deal with different hardware and software problems |
| Customise the working environment to optimise performance | Describe methods that can be used to optimise system performance Select and adjust system settings to optimise performance as appropriate Configure the automatic start of programmes and other graphical display options | System settings: Desktop, input and output settings; display settings, multiple monitors Optimise performance: Memory management; power management; disk partition |
| Maintain software to meet performance needs | Describe when and how to upgrade software Use appropriate techniques to maintain software Locate and install driver files for different devices | Upgrade software: Benefits of upgrading; drawbacks of not upgrading; the need to check compatibility of software and hardware upgrades with other parts of the system Maintain software: Install software patches and upgrades |

Personal Information Management Software (L/502/4370)

| Level 2 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Use calendars to schedule appointments and meetings | Create, edit and delete multiple calendar entries | <p>Display appointments: On screen, for print; display style; filters, views, by category; customise calendar settings; multiple calendars; search and retrieve; public calendars</p> <p>Invite to meetings: Check availability, notify participants; propose alternative times; display other users' calendars; identify conflicts and free time</p> <p>Create reminders: Set alarms; send reminders to mobile devices and message services; RSS feeds</p> <p>Import and export: iCalendar, vCalendar; link tasks to calendar; synchronise calendar with mobile device</p> <p>Share calendars: Multiple calendars, user permission levels, open source and online calendars; subscribe to other calendars.</p> <p>Organise notes: By category, colour, date</p> |
| | Arrange recurring appointments | |
| | Invite others to meetings and monitor attendance | |
| | Respond to meeting requests from others | |
| | Create reminders for calendar appointments and events | |
| | Locate, organise and display appointments and events as required | |
| | Import and export calendar data | |
| | Describe how to share calendars with other users | |
| Use a task list to prioritise activities | Create, edit and delete task information | <p>Organise tasks: By category, status, target date; assign and respond to task requests; filters</p> <p>Work collaboratively: Multiple tasks, user permission levels; composite tasks Task progress: Percentage completion; postpone task</p> |
| | Organise and display tasks, setting targets for completion | |
| | Monitor task progress and set reminders | |
| | Report on task status and activity | |
| | Use software features to work collaboratively on tasks with other users | |
| Use an address book to store, organise and retrieve contact information | Create, update and delete contact information | <p>Update contacts: Multiple entries for single person; automatic updates; assign category</p> <p>Organise contacts: By category, name, company; customise display, selected fields; filters; multiple contacts</p> <p>Responsible use: Password protection, Respect confidentially; public profiles; trust, data protection</p> <p>Select and export contacts: Selected fields; selected contacts; for transfer to mobile device, merge with other software</p> |
| | Locate, organise and display contact information efficiently | |
| | Create additional contact lists to separate work and leisure contacts | |
| | Select and export contact details for use in other applications | |
| | Create and modify a distribution list | |

| Level 2 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | Share contact information with others responsibly Explain why it is important to use personal data responsibly and safely Describe why and how to keep contact information up to date | Share contact information: Beam between mobile devices, vcard |

Presentation Software (M/502/4622)

| Level 2 | | |
|---|--|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Input and combine text and other information within presentation slides | Identify what types of information are required for the presentation | <p>Types of information: Text, numbers, images, graphics, sound, video</p> <p>Images, video or sound for presentations: Clip-art, photo, scanned images, borders, create diagrams or graphics, image formats</p> <p>Pre-recorded audio/video clips; audio and video formats</p> <p>Charts and tables for presentations: Table, pie chart, graph, diagram, organisational chart, flowchart</p> <p>Combine information for presentations: Combine images, charts, tables with text by inserting, re-sizing and positioning; use of text boxes, presentation with audio and/or video, import information produced using other software; reference external information with hyperlinks</p> <p>Constraints: On content: copyright law (eg on music downloads or use of other people's images), acknowledgment of sources, avoiding plagiarism; equal opportunities; local guidelines; On delivery (eg environment, timing)</p> <p>Store and retrieve: Save, save as, find, open, close; naming protocols; reducing file size, save presentation as a stand alone show or as web pages</p> |
| | Enter text and other information using layouts appropriate to type of information | |
| | Insert charts and tables into presentation slides | |
| | Insert images, video or sound to enhance the presentation | |
| | Identify any constraints which may affect the presentation | |
| | Organise and combine information of different forms or from different sources for presentations | |
| | Store and retrieve presentation files effectively, in line with local guidelines and conventions where available | |
| Use presentation software tools to structure, edit and format slide sequences | Identify what slide structure and themes to use | <p>Slide structure: Layout; use existing templates, designs and styles, organisational guidelines; adapt and create new templates</p> <p>Presentation effects: Video, sound, animation, slide transitions, visual and sound effects, hyperlinks</p> <p>Edit slides: Size, crop and position objects; wrap text, add captions and graphic elements, slide order; change orientation</p> <p>Animation and transition effects: Adding and removing hyperlinks; apply and create transitions, apply animations</p> |
| | Select, change and use appropriate templates for slides | |
| | Select and use appropriate techniques to format slides and presentations | |
| | Identify what presentation effects to use to enhance the presentation | |
| | Select and use appropriate techniques to edit slides and presentations to meet needs | |

| Level 2 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | Select and use animation and transition effects appropriately to enhance slide sequences | Format slides: Bullets, numbering, line spacing, alignment, colour, fonts, size, backgrounds, colour schemes, master slides; themes |
| Prepare slideshow for presentation | Describe how to present slides to meet needs and communicate effectively | Present slides: Timing, content, meaning; organisation of information; audience needs; location |
| | Prepare slideshow for presentation | Prepare slides: View and re-order slides; rehearse timing and effects; set up and amend slide show settings; print slides, handouts and speaker notes |
| | Check presentation meets needs, using IT tools and making corrections as necessary | Check presentation: Spell check; grammar check, orientation, layout, slide order, text alignment and formatting, accuracy, clarity, transitions and timings |
| | Identify and respond to any quality problems with presentations to ensure that presentations meet needs | Quality problems with presentations: Will vary according to the content, for example: Text: Formatting, styles Images: Size, position, orientation Effects: Timing, brightness, contrast, sound levels, order of animations |

Project Management Software (M/502/4619)

| Level 2 | | |
|--|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Create and define a project | Identify the critical information about the project that must be included | Project information: Tasks, timescales, resources, stages, constraints; Source of information: provided by the person responsible for the project Store and retrieve: Files (eg create, name, open, save, save as, print, close, find, share); version control; import/export; file size; folders (eg create, name) |
| | Create, store and retrieve project management files effectively in line with local guidelines for storage and use of data where applicable | |
| | Define the project file properties and project options | |
| Enter and edit information about project tasks and resources | Identify the critical tasks and milestones to be completed | Task types: Fixed cost, fixed duration, fixed work; critical, recurring Task information: Duration, status, set reminders, priority, assign resources, constraints, deadlines, outlines Task calendar: Working-time calendar, holidays, customise, charts (eg Gantt chart) Task duration: PERT analysis Resources: People, time, costs, equipment |
| | Enter and edit information about project tasks | |
| | Identify any deadlines and constraints which apply to the project | |
| | Identify issues of resource availability and utilisation | |
| | Create and apply a task calendar for scheduling tasks | |
| | Enter and edit information about resources for use in the project | |
| | Adjust templates for project information | |
| | Set up and edit dependencies between tasks | |
| Update information about project progress | Describe the methods to update and report information about project progress | Editing techniques: cut, copy, paste Task status: Complete, in progress, not started percentage |
| | Use editing and formatting techniques to update project elements | |
| | Update task status in line with progress | |
| | Update information about resources as required | |
| | Compare actual progress with project baseline and reschedule uncompleted tasks | |

| Level 2 | | |
|---|--|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | Identify any risks and issues that may have an impact on the project | |
| Select and use appropriate tools and techniques to display and report on project status | Select and create project reports to meet needs | Project reports: task progress, project progress, resource allocation and usage, costs Display project information: Task lists, resource assignment, project costs, critical path, |
| | Use filtering and formatting techniques to display project information to meet needs | |
| | Share project information with other applications | |

IT Security for Users (Y/502/4257)

| Level 2 | | |
|--|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| <p>Select and use appropriate methods to minimise security risk to IT systems and data</p> | Describe the security issues that may threaten system performance | <p>Threats to system performance: Unwanted e-mail (often referred to as “spam”), malicious programs (including viruses, worms, trojans, spyware, adware and rogue diallers) and hackers; hoaxes</p> <p>Security precautions: Use access controls. Configure anti-virus software, adjust firewall settings, adjust internet security settings; carry out security checks, report security threats or breaches; backup; store personal data and software safely; treat messages, files, software and attachments from unknown sources with caution; proxy servers; download security software patches and updates;</p> <p>Threats to information security: From theft, unauthorised access, accidental file deletion, use of removable storage media; malicious programs (including viruses, worms, trojans, spyware, adware and rogue diallers), hackers, phishing and identity theft; unsecured and public networks, default passwords and settings, wireless networks, Bluetooth, portable and USB devices</p> <p>Access to information sources: Username and password/PIN selection and management, password strength; how and when to change passwords; online identity/profile; Real name, pseudonym, avatar; what personal information to include, who can see the information; Respect confidentiality, avoid inappropriate disclosure of information</p> <p>Protect systems and data: Access controls: Physical controls, locks, passwords, access levels. Security measures: anti-virus software, firewalls, security software and settings. Risk assessment; anti-spam software, software updates</p> <p>Security guidelines and procedures: Set by: employer or organisation; security, privacy, legal requirements; how to use products to ensure information security within organisations</p> |
| | Apply a range of security precautions to protect IT systems and data | |
| | Describe the threats to system and information security and integrity | |
| | Keep information secure and manage personal access to information sources securely | |
| | Describe ways to protect hardware, software and data and minimise security risk | |
| | Apply guidelines and procedures for the secure use of IT | |
| | Describe why it is important to backup data and how to do so securely | |
| | Select and use effective backup procedures for systems and data | |

Set Up an IT System (L/502/4210)

| Level 2 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Select and connect up a personal computer safely with associated hardware and storage media to meet needs | Describe what IT system components, storage and peripheral devices are needed | <p>Health and safety issues: Health and safety issues, risks from hardware, electrical connection risks and guidelines, use and disposal of cleaning materials, handling equipment. Risks to self and others from using hardware; health and safety point of contact</p> <p>IT system performance: Processor speed, memory size, storage capacity, network capability</p> <p>IT system components: Will vary according to the set up, for example: Personal computer, monitor, keyboard, mouse (or other pointing device)</p> <p>Peripheral devices: Speakers, modem, scanner, games console, joystick; TV, data projector, white board; Plug and play devices; customised setup routines, printer and other device drivers</p> <p>Storage media: Disk, CD/DVD, data/memory stick, media card, mobile device, removable hard drive; customised setup routines</p> |
| | Describe any health and safety issues associated with setting up an IT system | |
| | Describe the characteristics of IT systems that affect performance | |
| | Select and connect up the components of an IT system safely, including any peripheral devices and storage media | |
| Select and connect an IT system to a communication service to meet needs | Select and connect communication hardware safely to an IT system | <p>Communication hardware: Router, modem, mobile data device, wireless router</p> <p>Data transfer: Which combinations of hardware and software offer different data transmission speeds; download capacity</p> <p>Communication service: Broadband, dial up, wireless, network connections, mobile device, ISP</p> |
| | Describe the factors that affect data transfer | |
| | Select and connect to a communication service from an IT system | |
| | Identify the login and password details needed to connect to an Internet Service Provider (ISP) | |
| Install and configure software for use | Configure the user interface to meet needs | <p>User interface: Operating system, date, time, language settings; Set up user account; desktop shortcuts; customise start-up</p> <p>Set up applications: Software licence; installation disks; manuals; customised settings; download software; map network drive; register software</p> |
| | Describe what security precautions need to be addressed | |
| | Set up and configure virus protection software | |
| | Install and set up | |

| Level 2 | | |
|---|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | application software to meet needs Backup and restore system and data files | |
| Check that the IT system and communication service are working successfully | <p>Identify what tests can be used to check the IT system and communications</p> <p>Select and run suitable tests to make sure that the system and communication service are working successfully</p> <p>Identify the help and troubleshooting facilities available to solve problems</p> <p>Respond to faults and error messages and use help and troubleshooting facilities to determine and take appropriate action</p> | <p>Compatibility issues: What problems can occur when hardware, software and operating systems are not compatible; why compatibility standards are needed</p> <p>Health and safety issues: Health and safety issues, risks from hardware, electrical connection risks and guidelines, use and disposal of cleaning materials, handling equipment. Risks to self and others from using hardware; health and safety point of contact</p> <p>IT system performance: Processor speed, memory size, storage capacity, network capability; graphics; display adapter</p> <p>IT system components: Will vary according to the set up, for example: Personal computer, monitor, keyboard, mouse (or other pointing device)</p> <p>Peripheral devices: Speakers, modem, scanner, games console, joystick; TV, data projector, white board; Plug and play devices; customised setup routines, printer and other device drivers</p> <p>Storage media: Disk, CD/DVD, data/memory stick, media card, mobile device, removable hard drive; customised setup routines; backup media</p> <p>Reasons for choosing storage media: Performance, capacity, accessibility, portability, security</p> |

IT Software Fundamentals (R/502/4385)

| Level 2 | | |
|---|--|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Select and use appropriate software applications to meet needs and solve problems | Describe what types of information are needed | Software applications: Types: word processing, spreadsheet, graphics, Internet browser, e-mail, audio and video software Open and close applications, switch between applications Types of information: Text, numbers, images, graphics, sound, data records |
| | Select and use software applications to develop, produce and present different types of information to meet needs and solve problems | |
| Enter, develop, combine and format different types of information to suit its meaning and purpose | Enter, organise, refine and format different types of information, applying editing techniques to meet needs | Organise information: Headings, lists, tables, use of templates, sort, charts and graphs, records, simple calculations, structure of information, document layout |
| | Use appropriate techniques to combine image and text components | Format information: Formatting techniques appropriate to the type of information, for example: |
| | Combine information of different forms or from different sources | Text – bullets, numbering, alignment, tabs, line spacing, colour, font, style, size |
| | Select and use appropriate page layout to present information effectively | Numbers – currency, percentages, number of decimal places, date, time, text wrap, row height, column width, gridlines, merged cells, cell borders Images – size, position Tables – horizontal and vertical text alignment, merge and split cells, gridlines, borders, shading Editing techniques: Editing techniques appropriate to the type of information, for example: select, copy, cut, paste, undo, redo, drag and drop, find, replace, insert, delete, size, crop, position, change templates Combine text and images: Insert, size, position, captions, text alignment text wrap, use of text boxes, behind, in front, grouping Combine information: Combine images with text (eg photo with caption); presentation with audio and/or video; numbers with charts and graphs; text alignment, captions, text wrap; behind, in front, grouping Page layout: Size, orientation, margins, portrait, landscape page breaks, page numbers, date and time, columns, header, footer adjust page set up for printing |

| Level 2 | | |
|--|--|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Present information in ways that are fit for purpose and audience | Work accurately and proof-read, using software facilities where appropriate | <p>Work accurately and proof-read: Ensure meaning is clear, seek views of others, check spelling, check calculations, ensure consistent layout, print preview</p> <p>Information fit for purpose: Letter, memo, report, newsletter, poster, information sheet, webpage, multi-media presentation, budget, invoice, stock list, multi-page brochure, multi-entry catalogue</p> <p>Quality issues: Formatting, page layout, structure, clarity, accuracy</p> |
| | Identify inconsistencies or quality issues with the presentation of information | |
| | Produce information that is fit for purpose and audience using accepted layouts and conventions as appropriate | |
| Evaluate the selection and use of IT tools and facilities to present information | Review and modify work as it progresses to ensure the result is fit for purpose and audience and to inform future judgements | <p>IT tools selection: Time taken, convenience, cost, quality, accuracy, range of facilities, versatility, transferability of information into other formats, speed of Internet connection, time constraints of downloading large files</p> <p>Review and modify work: Evaluate the quality of the information used, produce drafts, review against initial plans, check with intended audience</p> |
| | Review the effectiveness of the IT tools selected to meet needs in order to improve future work | |

Specialist Software (R/502/4399)

| Level 2 | | |
|---|--|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Input and combine information using specialist applications | Input relevant information accurately so that it is ready for processing | <p>Types of bespoke information: Information will vary according to the software for example, text, numbers, photos, scanned images, graphic elements, digital recorded sound, graphs, charts, tables</p> <p>Inputting information: Inputting tools and techniques will vary according to the technology being used: for example, interface devices (eg keyboard, mouse, stylus, touch screen), microphone (eg headset, built-in), camera (eg web cam, video camera, mobile phone camera)</p> |
| | Select and use appropriate techniques to link and combine information of different forms or from different sources within the software | |
| | Respond appropriately to data entry error messages | |

| Level 2 | | |
|--|--|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | | Combining information techniques: Insert, size, position, wrap, order, group, import data, links and references to external data |
| Use appropriate structures to organise and retrieve information efficiently | <p>Describe what functions to apply to structure and layout information effectively</p> <p>Select and use appropriate structures and/or layouts to organise information</p> <p>Apply local and/or legal guidelines and conventions for the storage and use of data where available</p> | <p>Structures and layouts: Apply and change existing templates, set up templates for inputting or retrieving information, apply or change existing styles</p> <p>Guidelines for the storage and use of data: Set by employer or organisation. Policies relating to security, backup and data protection; guidelines for data format; compliance, audit and reporting requirements File management will vary according to the application.</p> |
| Use the functions of the software effectively to process and present information | <p>Select and use appropriate tools and techniques to edit, process and format information</p> <p>Check information meets needs, using IT tools and making corrections as necessary</p> <p>Select and use appropriate methods to present information</p> | <p>Editing, analysis and formatting techniques: Techniques will vary according to the software and task, for example:</p> <p>Editing – select, insert, delete, cut, copy, paste, drag and drop, find, replace, page layout, labelling, alignment, orientation, colour, resolution, size, pitch</p> <p>Analysis – design queries, mathematical, logical or statistical functions Formatting – characters, lines, paragraphs, pages, file type</p> <p>Check information: Checks will vary according to the type of information and software, but could include: spell check, grammar check, accuracy of figures, labelling and size of images, volume of sound, quality of images and sound, that line, paragraph and page breaks fall appropriately, formatting is consistent, the use of headings and subheadings aid clarity, the placing of images or sound clips</p> <p>Presentation methods: Methods will vary according to the software and task, for example, on screen display, publishing on a web site, hard copy print out, digital file; organisational house style, branding</p> |

Spreadsheet Software F/502/4625

| Level 2 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Use a spreadsheet to enter, edit and organise numerical and other data | Identify what numerical and other information is needed in the spreadsheet and how it should be structured | <p>Enter and edit: Insert data into single and multiple cells, clear cells, edit cell contents, replicate data, find and replace, add and delete rows and columns; use absolute and relative cell references, add data and text to a chart</p> <p>Numerical and other information: Numbers, charts, graphs, text, images</p> <p>Spreadsheet structure: Spreadsheet components (eg cells, rows, columns, tabs, pages, charts, ranges, workbooks, worksheets), structure, design and layout</p> <p>Store and retrieve: Save, save as, find, open, close, open CSV file in spreadsheet application, save spreadsheet file as CSV; templates</p> |
| | Enter and edit numerical and other data accurately | |
| | Combine and link data across worksheets | |
| | Store and retrieve spreadsheet files effectively, in line with local guidelines and conventions where available | |
| Select and use appropriate formulas and data analysis tools to meet requirements | Identify which tools and techniques to use to analyse and manipulate data to meet requirements | <p>Analyse and manipulate: Totals, sub-totals and summary data; sorting and display order; lists, tables, graphs and charts; filter rows and columns; Judgment of when and how to use these methods</p> <p>Functions and formulas: Design of formulas to meet calculation requirements; mathematical, statistical, financial, conditional; logical functions</p> |
| | Select and use a range of appropriate functions and formulas to meet calculation requirements | |
| | Use a range of tools and techniques to analyse and manipulate data to meet requirements | |
| Select and use tools and techniques to present and format spreadsheet information | Plan how to present and format spreadsheet information effectively to meet needs | <p>Format cells: Numbers, currency, percentages, number of decimal places, font and alignment, shading and borders; date and time formats, wrap text</p> <p>Format rows and columns: Height, width, borders and shading, hide, freeze,</p> <p>Format charts and graphs: Format charts and graphs: Chart type (eg pie chart, bar chart, single line graph, area, column, x-y scatter, stock, radar, doughnut, surface), title, axis titles, legend, change chart type, move and resize chart</p> |
| | Select and use appropriate tools and techniques to format spreadsheet cells, rows, columns and worksheets | |
| | Select and format appropriate chart or graph type to display selected information | |
| | Select and use appropriate page layout to present and print spreadsheet information | |

| Level 2 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | <p>Check information meets needs, using spreadsheet tools and making corrections as necessary</p> <p>Describe how to find errors in spreadsheet formulas</p> <p>Respond appropriately to any problems with spreadsheets</p> | <p>Page layout: Size, orientation, margins, header and footer, page breaks, page numbers, date and time, adjust page set up for printing</p> <p>Check spreadsheet information: Accuracy of numbers, formulas and any text; accuracy of results; suitability of charts and graphs; reveal formulae; layout and formatting; validity and accuracy of analysis; clarity of overall spreadsheet</p> <p>Problems with spreadsheets: Using help; sorting out errors in formulas, circular references</p> |

IT User Fundamentals (L/502/4207)

| Level 2 | | |
|--|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Use IT systems to meet a variety of needs | Use correct procedures to start and shutdown an IT system | <p>Start and shutdown procedures: Log in, enter password, log out, shut down menu, lock, unlock; non-routine start-up, restart, safe mode, power management, stand-by</p> <p>IT system: Will vary according to the set up, for example: computer (PC, laptop), input device (eg keyboard, mouse or other pointing device), processor, output device (eg screen, printer), storage media (eg memory, disk, CD, DVD, data/memory stick, hard drive, network drive)Interface features: Desktop, windows, dialog box, menu, submenu, toolbar, icon, scrollbar, button, drag and drop, zoom, minimise, maximise, wizards, shortcuts</p> <p>System settings: Desktop, input and output settings; multiple monitors; accessibility settings, date and time; shortcuts, display settings</p> <p>Communication service: Broadband, dial up, wireless, network connections, mobile device, ISP</p> |
| | Select and use interface features effectively to interact with IT systems | |
| | Select and adjust system settings as appropriate to needs | |
| | Select and use a communication service to access the Internet | |
| Manage information storage and retrieval appropriately | Manage files and folders to enable efficient information retrieval | <p>File handling: Files: Create, name, open, save, save as, print and close files; move, copy, rename, delete files; display file lists, sort, search; properties, access control, size; file types</p> <p>Folders: Create and name folders and subfolders, change default settings, file housekeeping</p> <p>Storage media: Disk, CD, DVD, data/memory stick, media card, hard drive, network drive, mobile device</p> <p>Organise and store: Insert, remove, name, label, archive, share, permissions</p> |
| | Identify when and why to use different types of storage media | |
| | Organise and store information, using general and local conventions where appropriate | |
| Follow and understand the need for safety and security practices | Work safely and take steps to minimise physical stress | <p>Work safely: Health and safety issues, risks from hardware, electrical connection risks and guidelines, use and disposal of cleaning materials, handling equipment. Risks to self and others from using hardware; Organisational guidelines and points of</p> |
| | Describe the danger of computer viruses, and how to minimise risk | |
| | Keep information secure | |

| Level 2 | | |
|---|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | <p>Explain why it is important to stay safe and to respect others when using IT- based communication</p> | <p>contact; risk assessment; safe disposal of IT equipment and consumables</p> <p>Physical stress: Adjust seating and lighting, avoid hazards, take breaks, arrangement of hardware and cables, wrist rests; workspace; working conditions</p> <p>Minimise risk: Virus-checking software, treat files, software and attachments from unknown sources with caution; anti-spam software, firewall;</p> <p>Information security: Copies, backup, password, PIN, avoid inappropriate disclosure of information</p> <p>Staying safe: Protect personal information, avoid misuse of images, use appropriate language, respect confidentiality, use copy lists with discrimination</p> <p>Guidelines and procedures: Set by: employer or organisation</p> <p>Topic: Health and safety, security, copyright, netiquette, data protection, child protection, equal opportunity, accessibility</p> |

Using Collaborative Technologies (F/502/4379)

| Level 2 | | |
|--|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| <p>Stay safe and secure when working with collaborative technology</p> | <p>Take appropriate steps to avoid risks when working with collaborative technology, in line with relevant guidelines</p> | <p>Guidelines for using collaborative technology: Guidelines set by your organisation or community of interest; about uses, security, safety, copyright, plagiarism, libel, confidentiality and data protection</p> <p>Risks when working with collaborative technologies: Inappropriate disclosure of personal information, misuse of images, appropriate language, respect confidentiality, copy lists, what to do in a power cut, about data loss, from unwanted or inappropriate content or access, back-ups, data exporting</p> <p>Methods to promote trust: Contact information, membership of professional bodies, recommendations, links, policies, standards</p> <p>Checks on others' online identities: Compare sources, cross references</p> |
| | <p>Explain what risks there may be in using collaborative technology and how to keep them to a minimum</p> | |
| | <p>Use appropriate methods to promote trust when working collaboratively</p> | |
| | <p>Carry out appropriate checks on others' online identities and different types of information</p> | |
| | <p>Identify and respond to inappropriate content and behaviour</p> | |
| <p>Plan and set up IT tools and devices for collaborative working</p> | <p>Describe the purposes for using collaborative technologies</p> | <p>Purposes for collaborative working: Will vary according to the task, but may include: sharing, displaying and recording information, discussing and reflecting, establishing identity, joining interest groups, developing ideas, contributing to research, carrying out research, exporting information to other formats, establishing communities of interest, managing identities, managing data</p> <p>Outcomes of collaborative working: Measurable (eg document, minutes, notes, project plan, transcript); ephemeral (eg conversation, agreement), whether an audit trail is needed</p> <p>Collaborative technology tools and devices: Hardware: mobile, laptop, desktop, peripherals (eg headset, handset, microphone, camera, 3G modem); Software: products, services, sites</p> <p>Communication media: Text, audio/spoken, still/video/animated images</p> <p>Connect and configure collaborative technologies: Connect to another site, check whether both sites are connected, connect to</p> |
| | <p>Describe what outcomes are needed from collaborative working and whether or not archiving is required</p> | |
| | <p>Describe the roles, IT tools and facilities needed for collaborative tasks and communication media</p> | |
| | <p>Describe the features, benefits and limitations of different collaborative technology tools and devices</p> | |
| | <p>Describe the compatibility issues in different combinations of collaborative tools and devices</p> | |
| | <p>Select an appropriate combination of IT tools and devices to carry out collaborative tasks</p> | |

| Level 2 | | |
|--|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | Connect and configure the combination of IT tools and devices needed for a collaborative task | multiple sites, check when multiple sites are connected, adjust clarity Compatibility issues: Between browser software, operating systems, plug-ins |
| Prepare collaborative technologies for use | <p>Describe what access rights and issues others may have in using collaborative technologies</p> <p>Assess what permissions are needed for different users and content</p> <p>Set up and use access rights to enable others to access information</p> <p>Set up and use permissions to filter information</p> <p>Adjust settings so that others can access IT tools and devices for collaborative working</p> <p>Select and use different elements to control environments for collaborative technologies</p> | <p>Access to collaborative technologies: Download software, agree terms and conditions, register or set up an ID; accessibility issues, adjusting access settings</p> <p>Adjust settings: Hardware – colour, type size, window size, volume; Browser – cookies, pop-ups; Security settings – firewall</p> <p>Environments for collaborative technologies: User interface – choose skins, templates, widgets, wizards, cut and paste from other sources; work environment – lighting, position of devices</p> <p>Managing data for collaborative working: Sources, subscription details, terms and conditions; aims of data management; benefits, features and limitations of networks and feeds</p> <p>Permissions: Web address, phone number, user name and password, set up user names and access codes</p> |
| Contribute to tasks using collaborative technologies | <p>Select and join networks and data feeds to manage data to suit collaborative tasks</p> <p>Describe rules of engagement for using collaborative technologies</p> <p>Enable others to contribute responsibly to collaborative tasks</p> <p>Present relevant and valuable information</p> <p>Moderate the use of collaborative technologies</p> <p>Archive the outcome of collaborative working</p> <p>Assess when there is a problem with collaborative technologies and when to get expert help</p> | <p>Contributing responsibly: Follow the rules of ‘netiquette’, respect others contributions, avoid dominating and not responding; legal and cultural issues</p> <p>Moderating collaborative working: Reporting inappropriate content; checking posts</p> <p>Archiving outcomes: Cut, paste, save; record, transcribe</p> <p>Problems with collaborative technologies: routine (eg settings, software not responding, hardware connections); non-routine (eg access, transmission speed, bandwidth)</p> <p>Respond to problems: Follow on screen help, know who to ask for expert help; use diagnostic wizards, check bandwidth</p> |

| Level 2 | | |
|-----------------------------|---|-----------------|
| Learning outcomes | Assessment Criteria | Examples |
| The learner will.... | The learner can... | |
| | Respond to problems with collaborative technologies | |

Using Email (M/502/4300)

| Level 2 | | |
|---|--|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| <p>Use email software tools and techniques to compose and send messages</p> | <p>Select and use software tools to compose and format email messages, including attachments</p> | <p>Compose and format e-mail: Format text (font, size, colour); format paragraphs (alignment, bullets, numbered list), spell check, priority; format (rtf, plain text, html), draft, signature, page set up, backgrounds, sound, movie, hyperlink, work on- and offline</p> <p>Message size: Managing attachments; mailbox restrictions; methods to reduce size</p> <p>Send e-mail: To, from, cc, bcc, subject; Reply, reply all, forward, distribution list, reply with history; options, set message flags for priority, confidentiality, response request, vote</p> <p>Receive e-mail: Open message, open attachment</p> <p>Stay safe: Avoid inappropriate disclosure of personal information, avoid misuse of images, use appropriate language, respect confidentiality, use copy lists with discrimination</p> <p>Address book: Add, edit, delete contact entries; contacts list, distribution list, sort, display selected fields</p> |
| | <p>Determine the message size and how it can be reduced</p> | |
| | <p>Send email messages to individuals and groups</p> | |
| | <p>Describe how to stay safe and respect others when using emails</p> | |
| | <p>Use an address book to organise contact information</p> | |
| <p>Manage incoming email effectively</p> | <p>Follow guidelines and procedures for using email</p> | <p>Guidelines and procedures: Set by employer or organisation, security, copyright; netiquette; password protection</p> <p>E-mail responses: Decide on priorities, gather information needed to respond, decide when and who to copy in, what to do about attachments</p> <p>Automate responses: Rules, automatic replies, changing settings to deal with junk mail, out of office</p> <p>Organise and store e-mail: Folders, subfolders, delete unwanted messages, backup, address lists, move after sending, rules, archive folders; attachments, file compression</p> <p>Email problems: Due to message size or number of attachments, messages from unknown users (SPAM, junk, chain-mails, 'phishing'), viruses, messages intended to cause problems; mailbox full</p> |
| | <p>Read and respond to email messages appropriately</p> | |
| | <p>Use email software tools and techniques to automate responses</p> | |
| | <p>Describe how to archive email messages, including attachments</p> | |
| | <p>Organise, store and archive email messages effectively</p> | |
| | <p>Respond appropriately to email problems</p> | |

Using Mobile IT Devices (K/502/4375)

| Level 2 | | |
|--|--|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Set up and customise the mobile device to meet needs | Describe the purpose of the different features and drawbacks of the mobile device | <p>Access mobile network: Connection protocols; VOIP, SMS</p> <p>Set up mobile device: Charging battery; Access (eg password, login); SIM card, new connection (eg phone, Internet, cable); network settings</p> <p>Interface features: Display, menu, submenu, toolbar, icon, button, keypad, wheel; start and shutdown; shortcut keys; voice activation</p> <p>Device settings: Resolution (eg screen, image), sound (eg volume, ringtone), appearance (eg colour, theme); user profile</p> <p>Guidelines and procedures: Set by: employer or organisation, About: health and safety, security, copyright, data protection, child protection, obscenity, equal opportunities, access</p> |
| | Describe different methods that can be used to access mobile networks | |
| | Prepare, set up and configure the mobile device for use | |
| | Select, use and customise interface features and settings to meet needs and improve efficiency | |
| | Describe any specific health and safety issues associated with the use of mobile devices | |
| | Apply guidelines and procedures for the use of mobile devices | |
| Select and use applications and files on the mobile device | Select and use applications and files on the mobile device for an appropriate purpose | <p>Mobile applications and files: Games and interactive material, documents, music files, video animations, image slideshows and presentations, emails, Internet pages, collaborative tools; pdf documents, Office documents, e-books, Flash animations; Naming protocols; adding applications</p> <p>File formats: Naming protocols; file size</p> <p>Input data: Touch screen, stylus, keypad, voice command; Create products on the device: (documents such as text notes or email, files such as sound recording, image or video capture)</p> <p>Store and retrieve data: Files (eg create, name, open, save, save as, print, close, find), folders (eg create, name), navigate (eg menu, tool bar, icon, scroll bar, button); save to card, save to memory</p> |
| | Define file formats appropriate for mobile devices | |
| | Use software or tools to prepare or convert files to an appropriate format for mobile devices | |
| | Input data accurately into a mobile device | |
| | Organise, store and retrieve data efficiently on a mobile device | |
| Use tools and techniques to transfer data to and from mobile devices | Describe different types of secure connection methods that can be used between devices | Secure connection: Password control, Bluetooth, infrared, cable, device pairing; synchronisation software, connection settings |

| Level 2 | | |
|--|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | <p>Describe software requirements and techniques to connect and synchronise devices</p> <p>Transfer information to and from mobile devices using secure connection procedures</p> <p>Synchronise mobile device data with source data</p> <p>Recognise copyright and other constraints on the use and transfer of information</p> <p>Explain why it is important to stay safe, keep information secure and to respect others when using mobile devices</p> <p>Keep information secure when using a mobile device</p> | <p>Transfer information: Export, drag and drop, SMS, when transfer successful; change SIM card</p> <p>Synchronise mobile device: Files, calendar, address book, tasks; With laptop, desktop</p> <p>Copyright constraints: Effect of copyright law (eg on music downloads or use of other people's images), acknowledgment of sources, avoiding plagiarism, permissions,</p> <p>Staying safe: Protect personal information, avoid misuse of images, use appropriate language, respect confidentiality, use copy lists with discrimination</p> <p>Keep information secure: Username and password/PIN selection and management, password strength; how and when to change passwords; Respect confidentiality, avoid inappropriate disclosure of information</p> |
| Optimise the performance of mobile devices | <p>Describe the factors that can affect performance of the mobile device and how to make improvements</p> <p>Use appropriate techniques to optimise the performance of the mobile device</p> <p>Describe problems that may occur with mobile devices and what causes them</p> <p>Use an appropriate fault-finding procedure to identify and solve problems with the mobile device</p> <p>Describe when to try to solve a problem and where to get expert advice</p> | <p>Mobile device performance: Battery life; application and file use; device maintenance; network availability, interference</p> <p>Maintain performance: Carry out routine maintenance (battery charging, cleaning of handset, communication settings such as Bluetooth or Wi-Fi turned off when not in use; closing applications after use; battery management</p> <p>Fault-finding procedures: Re-start procedures -soft and hard re-boot options and consequent issues relate to the new settings, manual/guide information accompanied with the device, online guidance; using help</p> <p>Expert advice: Limits of own understanding and skills, help menus, manufacturer's guidelines, how to follow advice, information needed by experts, use diagnostic tools and wizards</p> |

Using the Internet (A/502/4297)

| Level 2 | | |
|---|--|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Connect to the Internet | Identify different types of connection methods that can be used to access the Internet | <p>Connection methods: LAN, VPN, modem, router, wireless, dial-up, broadband; cable, DSL; mobile phone with wireless application protocol (WAP) or 3rd Generation (3G) technology; intranet server (eg via parallel, serial or USB connections)</p> <p>Benefits and drawbacks of connection methods: Speed, stability, services offered by ISP, accessibility</p> |
| | Identify the benefits and drawbacks of the connection method used | |
| | Get online with an Internet connection | |
| | Use help facilities to solve Internet connection problems | |
| Use browser software to navigate web pages effectively | Select and use browser tools to navigate web pages | <p>Browser tools: Enter, back, forward, refresh, stop, history, bookmark, new tab. Toolbar, search bar, address bar; home, go to, follow link, URL, save web address</p> <p>Browser settings: Homepage, autofill, cookies, security, pop-ups, appearance, privacy, search engine, zoom, personalisation, accessibility; software updates, temporary file storage</p> <p>Browser performance: Delete cache, delete temporary files, work offline, save websites</p> |
| | Identify when to change settings to aid navigation | |
| | Adjust browser settings to optimise performance and meet needs | |
| | Identify ways to improve the performance of a browser | |
| Use browser tools to search for information from the Internet | Select and use appropriate search techniques to locate information efficiently | <p>Search techniques: Search key words, quotation marks, search within results, relational operators, 'find' or search tool, turn questions into key words for an online query; choice of search engine, multiple search criteria, logical operators, wild cards</p> <p>Information requirements: Recognise intention and authority of provider, currency of the information, relevance, accuracy, bias, level of detail, sufficiency, synthesise information from a variety of sources</p> <p>References: History, favourites, bookmarks; links, log useful sites, RSS, data feeds, saved search results;</p> <p>Download information: Webpage, website; Images, text, numbers, sound, games, video, TV, music</p> |
| | Describe how well information meets requirements | |
| | Manage and use references to make it easier to find information another time | |
| | Download, organise and store different types of information from the internet | |

| Level 2 | | |
|--|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Use browser software to communicate information online | Identify opportunities to create, post or publish material to websites | <p>Communicate information: Saved information (pod-casts, text, images), real time information (blogs, instant messaging), file transfer protocol [FTP], hypertext transmission protocol [http]; VOIP</p> <p>Share information sources: Send link, send webpage, reference lists;</p> <p>Submit information: Fill-in and submit web forms; ratings, reviews, recommendations; wikis; discussion forums; interactive sites; netiquette;</p> |
| | Select and use appropriate tools and techniques to communicate information online | |
| | Use browser tools to share information sources with others | |
| | Submit information online | |
| | Apply laws, guidelines and procedures for safe and secure Internet use | |
| | Describe the threats to system performance when working online | |
| | Describe the threats to information security when working online | |

Video Software (M/502/4393)

| Level 2 | | |
|---|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Use video hardware and software to capture sequences | Identify the combination of input device and video software to use to capture information, to avoid any compatibility issues | Video compatibility issues: Between built-in codec used by input device, available editing software, file formats |
| | Select and use an appropriate combination of input device and video software to record sequences | Input devices: Webcam, video camera, mobile phone; difference between analogue and digital; low and high resolution; Input techniques: Copy and paste, screen grabs/shots, file download (eg connect USB lead, drag and drop) |
| | Describe the impact file size and file format will have on saving sequences | File size: Small, medium, large, link between size and quality (eg small – low resolution; large – high resolution) |
| | Identify when to use different types of information coding and compression | File format: Proprietary formats supported by software used (eg QuickTime, RealPlayer, iTunes). Container formats: Audio (eg WAV, XMF, AIFF); Audio/video (eg 3GP, AVI, MP4, OGG, MOV) |
| | Store and retrieve sequences using appropriate file formats and compression, in line with local guidelines and conventions where available | Information coding and compression: Codec, compression, difference between lossy and lossless compression; video quality Store and retrieve: Files (eg create, name, open, save, save as, print, close, find, share); version control; import/export; file size; folders (eg create, name) |
| Use video software tools and techniques to combine and edit sequences | Identify the sequences to add, keep and remove | Sequences: Short (eg 2 mins), b&w, medium length (eg 10 mins, 30 mins), colour |
| | Select and use appropriate video software tools to mark-up and edit sequences | Marking-up and editing tools: Preset by software, key frames, sequences; Cut, copy, paste, sequence |
| | Organise and combine information for sequences in line with any copyright constraints, including across different software | Combine information: Combine images with sound (eg dub or overlay sound track onto film sequence): |
| | Describe how copyright constraints affect use of own and others' information | Techniques: Copy and paste, insert, screen grabs/shots, file download (eg connect USB lead, drag and drop), file transfer protocol (FTP) Forms of information: moving images, sound; pre-recorded, live Copyright constraints: Effect of copyright law (eg on music downloads or use of other people's images), acknowledgment of sources, avoiding plagiarism, permissions |

| Level 2 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Play and present video sequences | Describe the features and constraints of playback software and display devices | Features and constraints: Software supported, memory, processing speed, screen resolution, data bandwidth, transmission speeds |
| | Select and use an appropriate combination of video playback software and display device to suit the file format | Display device: PC, laptop, video camera, mobile phone, handheld video device (eg mp3 player, iPod) |
| | Identify the settings which could be adjusted to improve the quality of presentations | Video quality issues: High or low contrast, volume, visual (eg jerkiness, dropping frames, break-up, freezes, blurriness, pixilation), sound (eg clicks, disjoints, noise) |
| | Adjust playback and display settings to enhance the quality of the presentation | Adjust playback and display settings: Playback controls (eg start, stop, fast forward, rewind, pause); sound (eg volume, balance); screen size (eg thumbnail, quarter screen, full screen); visual (eg contrast, brightness, colour/b&w) |

Word Processing Software (R/502/4628)

| Level 2 | | |
|--|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Enter and combine text and other information accurately within word processing documents | Identify what types of information are needed in documents | <p>Types of information: Text, numbers, images, other graphic elements (eg lines, borders); hyperlinks, charts, objects</p> <p>Keyboard or other input method: Keyboard skills: using the full range of keys, typing accurately and efficiently, keyboard shortcuts Other input methods: voice recognition, touch screen, stylus</p> <p>Combine information: Insert, size, position, wrap, order, group, link information in a document to another source; mail merge documents and labels; hyperlinks</p> <p>Templates: Existing templates (eg blank document, fax, letter, web page), create new templates for common documents</p> <p>Editing tools: Editing tools appropriate to the type of information, for example: select, copy, cut, paste, undo, redo, drag and drop, find, replace, insert, delete, size, crop, position</p> <p>Store and retrieve: Files (eg create, name, open, save, save as, print, close, find, share); version control; import/export; file size; folders (eg create, name)</p> |
| | Use appropriate techniques to enter text and other information accurately and efficiently | |
| | Select and use appropriate templates for different purposes | |
| | Identify when and how to combine and merge information from other software or other documents | |
| | Select and use a range of editing tools to amend document content | |
| | Combine or merge information within a document from a range of sources | |
| | Store and retrieve document and template files effectively, in line with local guidelines and conventions where available | |
| Create and modify layout and structures for word process documents | Identify the document requirements for structure and style | <p>Requirements for structure and style: Document layout, house style</p> <p>Tables and forms: Insert and delete cells, rows and columns, adjust row height and column width, Add and amend table structure, merge cells, complete forms and tables, insert and modify form fields, convert text to table; merge and split cells, horizontal and vertical text alignment, cell margin, add borders and shading, sort</p> <p>Columns: Add and delete columns, modify column width, add columns to whole document and part of a page</p> <p>Styles: Heading styles; Apply or change existing styles to a word, line, paragraph or section, define styles for different elements of common documents</p> |
| | Identify what templates and styles are available and when to use them | |
| | Create and modify columns, tables and forms to organise information | |
| | Select and apply styles to text | |

| Level 2 | | |
|--|--|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | | <p>Page layouts: Paper size and type, change page orientation, margins, page breaks, page numbering, section breaks; header and footer, date and time, adjust page set up for printing</p> |
| <p>Use word processing software tools to format and present documents effectively to meet requirements</p> | <p>Identify how the document should be formatted to aid meaning</p> <p>Select and use appropriate techniques to format characters and paragraphs</p> <p>Select and use appropriate page and section layouts to present and print documents</p> <p>Describe any quality problems with documents</p> <p>Check documents meet needs, using IT tools and making corrections as necessary</p> <p>Respond appropriately to quality problems with documents so that outcomes meet needs</p> | <p>Format characters: Size, font style (typeface), colour, bold, underline, italic, superscript, subscript, special characters and symbols</p> <p>Format paragraphs: Alignment, bullets, numbering, line spacing, borders, shading, widows and orphans; Tabs and indents</p> <p>Check word processed documents: Spell check, grammar check, typeface and size, hyphenation, page layout, margins, line and page breaks, tables, print preview, accuracy, consistency, clarity; language and dictionary settings</p> <p>Quality problems with documents: Will vary according to the content, for example, text (eg styles, structure, layout), images (eg size, position, orientation), numbers (eg decimal points, results of any calculations)</p> |

Website Software (R/502/4631)

| Level 2 | | |
|--|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| <p>Create structures and styles for websites</p> | <p>Plan and create web page templates to layout</p> | <p>Content and layout: Web page content and layout will vary according to the template, but may include: text (eg body text, headings, captions), images (eg still photographs, diagrams), numbers (eg tables, charts or graphs), background (eg colours, gradients, patterns, textures), structure (eg frames, side bars), moving images (eg animation, video clips), sound (eg clips linked to navigation, background music, video sound track)</p> <p>Constraints: Effect of copyright law (eg on music downloads or use of other people's images), acknowledgment of sources, avoiding plagiarism; permissions</p> <p>Website features: Web page features will vary, but may include: navigation (eg action buttons, links, hot spots, menus, hyperlinks, pop-ups), multimedia (eg sound linked to actions, video clips, sound track)</p> <p>Web page templates: Design layout will vary but may include: text (eg body text, headings, captions), images (eg still photographs, diagrams), numbers (eg tables, charts or graphs), background (eg colours, gradients, patterns, textures), structure (eg frames, side bars), moving images (eg animation, video clips), sound (eg clips linked to navigation, background music, video soundtrack)</p> <p>Web page styles: Styles will vary according to the different elements of the website design, but may include: typeface (eg font, colour, size and alignment of headings, captions or body text), lines (eg type, thickness and colour of borders, tables, diagrams)</p> <p>Access issues: The difficulties different users may have in accessing websites, accessibility guidelines, affect of download speeds (eg from different browser software, connection type, size of web page contents)</p> <p>File types: Text (eg rtf, doc, pdf), images (eg jpeg, tiff, psd), charts and graphs (eg xls), sound (eg wav, MP3)</p> |
| | <p>Create, select and use styles to keep the appearance of web pages consistent and make them easy to understand</p> | |
| | <p>Store and retrieve files effectively, in line with local guidelines and conventions where available</p> | |

| Level 2 | | |
|---|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | | <p>Store and retrieve: Files (eg create, name, open, save, save as, print, close, find, share); version control; import/export; file size; folders (eg create, name)</p> |
| <p>Use website software tools to prepare content for websites</p> | <p>Prepare content for web pages so that it is ready for editing and formatting</p> <p>Organise and combine information needed for web pages in line with any copyright constraints, including across different software</p> <p>Select and use appropriate editing and formatting techniques to aid both clarity and navigation</p> <p>Select and use appropriate development techniques to link information across pages</p> <p>Change the file formats appropriately for content</p> <p>Check web pages meet needs, using IT tools and making corrections as necessary</p> | <p>Combine information: Combine images with text (eg photo captions); presentation with audio and/or video; numbers with charts and graphs; text alignment, captions, text wrap; behind, in front, grouping</p> <p>Editing techniques: Editing techniques will vary in line with the type of information, for example: select, copy, cut, paste, undo, redo, drag and drop, find, replace, size, crop, position, change templates</p> <p>Development techniques: Creating links to bookmark text within a page, linking web pages together, adding a link to another website, altering simple code using programming language</p> <p>File formats: Change format of documents to RTF or HTML</p> <p>Check web pages: Will vary depending on the content but may include, for example: Text: Spell check; grammar check, type face and size, hyphenation. Layout: Page layout, margins, line and page breaks, tables, frames, sections. Images: Size, alignment and orientation, suitability of file format, appropriate choice of colour mode and use of filters, fitness for purpose of image resolution</p> |
| <p>Publish websites</p> | <p>Select and use appropriate testing methods to check that all elements of websites are working as planned</p> <p>Respond appropriately problems with multiple page websites</p> | <p>Testing methods: Methods will vary but may include: viewing web pages using browser software, testing navigation round pages within multiple page website, testing external links</p> <p>Problems with websites: Problems may vary, but could include: content that is not appropriate for the template or missing, text</p> |

| Level 2 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | Select and use an appropriate programme to upload and publish the website | that is not readable or missing, images that are oriented or sized wrongly, navigation that does not work as planned; multimedia features (eg sound levels, image resolution, synchronisation of sound and images) Upload and publish website: Upload content to a template, use file exchange programme to upload and publish (eg FTP or HTTP) |

Developing Personal and Team Effectiveness Using IT (T/503/0499)

| Level 2 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Know how IT can support personal development | Describe how IT tools and systems can be used to manage time effectively | IT Tools: communications, email, sharing calendars, sharing files, intranet, net-meeting, bulletin boards, video training, e-newsletters; social media tools: forums, blogs, chat, social networks, websites, worldwide, mobile devices and applications, collaborative technology, cameras, internet, news, wireless, virtual learning environments, media rich content, simulation |
| | Identify IT tools and resources to support own learning and development | |
| | Describe how IT tools can support personal performance improvement | |
| Use IT to support personal development | Create an action plan to improve own work practice | |
| | Participate in activities to meet personal development goals | |
| | Use appropriate IT tools to support personal performance improvement | |
| Know how IT can support the development of team effectiveness | Describe the roles and responsibilities of team members | Roles: helpdesk operator, systems analyst, website designer, systems administrator, programmer, network technician, IT trainer |
| | Describe how IT tools and systems can be used to improve team activities | |
| | Identify ways that IT can be used to overcome obstacles to effective teamwork | |
| Review use of IT for team or collaborative activities | Review contribution of own use of IT to team activities | |
| | Provide feedback to other on their use of IT in a constructive and considerate manner | |
| | Review feedback from other on own use of IT | |

Understanding the Potential of IT (M/503/0498)

| Level 2 | | |
|--|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Understand the impact of IT on business | Describe the potential of IT to improve internal and external communications | <p>Communications: email, sharing calendars, sharing files, intranet, net-meeting, bulletin boards, video training, e-newsletters; social media tools: forums, blogs, chat, social networks, websites, phone systems</p> <p>Business processes: saves printing, initial equipment cost, better customer service, computerised purchasing and sales, project management, automated routines, templates, manual processes supporting IT, more efficient and effective ways of doing things, learning new techniques; ways to improve others' or organisational efficiency</p> <p>Positive impacts: save time, save money, streamline work processes, cost saving, IT training, better informed, job satisfaction</p> <p>Negative impacts: information overload, redundancy, redeployment, Health and Safety risks, increase output, improve quality of outputs</p> |
| | Describe the potential of IT to improve business processes | |
| | Describe the possible positive and negative impact on employees of the deployment of IT | |
| Understand how new and emerging technologies can impact society and the individual | Describe the benefits of new technologies on personal and social communication and interaction | <p>Benefits of new technologies: cost, access, worldwide, mobile devices and applications, collaborative technology, cameras, internet, news, wireless; competitive new markets, security</p> <p>Improve access: security, knowledge, Virtual learning environments, media rich content, simulation, learners with disabilities or learning difficulties. Archives, departmental information, online forms, email, local, national, European Union</p> <p>Drawbacks: Competitive new markets, price compare sites, customer reviews</p> |
| | Describe how IT can improve access to education and government services | |
| | Describe how IT can improve access to products and services | |
| | Identify possible drawbacks of new technologies for individuals and society | |
| Know how IT is being used in an organisation | Describe the purpose of key components of the IT system (hardware, software and communications) | <p>Hardware: personal computer, monitor, keyboard, mouse, speakers, modem, scanner, games console, joystick, TV, data projector, whiteboard, printer</p> <p>Software: operating, applications, bespoke</p> |
| | Describe the roles and responsibilities of those involved in operating and supporting the IT function | |

| Level 2 | | |
|--|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | Describe the guidelines and procedures for accessing IT help and support | <p>Communications: Router, modem, mobile data device, wireless router; cables, power supply, USB, parallel, serial connections. Broadband, dial up, wireless, network connections, mobile device, ISP, IP configuration</p> <p>Roles: IT Clerk, Website Technician, Data Administrator, Digital Assistant</p> <p>Legal or local guidelines or constraints: May include data protection, copyright, software licensing; security; organisational house-style or brand guidelines, manufacturer's instructions, software help facilities, organisational policy</p> |
| Know how the introduction of new IT tools and systems can affect an organisation | Compare different approaches to introducing new IT tools and systems | <p>Risks: Inappropriate disclosure of personal information, misuse of images, data loss, unwanted or inappropriate content or access, Cyber-bullying, tasteless or unsuitable personal comments, offensive or illegal content, inappropriate behaviour, posting inappropriate content. Worms, viruses, denial of service, hacking of systems, Trojans, spam, theft of data, hacking, accidental deletion or change to data, phishing, identify theft</p> |
| | Describe potential benefits from the introduction of new IT tools and systems | |
| | Describe methods used by manufacturers and publishers to control usage of digital content and devices | |
| Know the methods used to enhance IT security in an organisation | Describe the main risks to data and personal security for IT users | <p>Control measures: Spyware, reporting inappropriate content; checking posts, monitoring audio/visual discussions. Set passwords, physical access controls i.e. keypads or locks, anti-virus software, adjust firewall settings, carry out security checks, report security threats and breaches, back up data and software and store appropriately, download and install software patches and updates, treat messages, files, software and data from unknown sources with caution, proxy servers</p> <p>Policies: about uses, security, safety, copyright, plagiarism, libel, backups, confidentiality and data protection, using collaborative technology; careful disposal of information items, behaviour</p> <p>Legal and regulatory requirements: relating to behaviour and content e.g. Equality Act 2010; Computer Misuse Act 1998; Copyright law</p> |
| | Describe the types of control measures and policies organisations can put in place to maximise personal and data protection | |
| | Describe how organisations can exploit new developments in technology to improve cyber security | |

3.4 Level 3: Learning outcomes and assessment criteria
 Audio Software (H/502/4391)

| Level 3 | | |
|---|--|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Use audio hardware and software to capture sequences | Determine the content needed for sequences, and when to originate it | <p>Audio compatibility issues: Between built-in codec used by input device, available editing software, file formats, operating systems, plug-ins</p> <p>Input devices: Microphone, Dictaphone, mobile phone; difference between analogue and digital; low and high resolution; Input techniques: Copy and paste, screen grabs/shots, file download (eg connect USB lead, drag and drop)</p> <p>Originate and develop: Process: Plan (eg storyboard, script, compose), prepare (eg information, equipment), develop, test, refine; Types of content: audio (eg music, sound effects, voiceovers), visual (eg drama, dance, animation)</p> <p>File size: Small, medium, large, link between size and quality (eg small – low resolution; large – high resolution)</p> <p>File format: Proprietary formats supported by software used (eg QuickTime, RealPlayer, iTunes) Container formats: Audio (eg WAV, XMF, AIFF); Audio/video (eg 3GP, AVI, MP4, OGG, MOV) Popularity, overhead, support for advanced functionality and content, support of streaming media</p> <p>Information coding and compression: Codec, compression, difference between lossy and lossless compression, factors affecting video quality</p> <p>Store and retrieve: Files (eg create, name, open, save, save as, print, close, find, share); version control; import/export; file size; file properties, folders (eg create, name); archive (backup, restore))</p> |
| | Explain any compatibility issues between combinations of input device and audio software | |
| | Select and use an appropriate combination of input device and audio software to optimise the recording of information | |
| | Select and use an appropriate combination of hardware and software to originate and develop new content for sequences | |
| | Analyse and explain the impact file size and file format will have, including when to use information coding and compression | |
| | Store and retrieve sequences using appropriate file formats and compression, in line with local guidelines and conventions where available | |
| Use audio software tools and techniques to edit sequences | Select and use appropriate audio software tools and techniques to mark-up and edit sequences to achieve required effect | <p>Sequence: Short (eg 2 mins), b&w, medium length (eg 10 mins, 30 mins), colour</p> <p>Marking-up and editing tools: Preset by software, key frames, sequences; Cut, copy, paste, sequence, special effects</p> |
| | Provide guidance on how copyright constraints affect use of own and others' information | |

| Level 3 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | Organise, combine and link information for sequences in line with any copyright constraints, including across different software | <p>Combine information: Combine images with sound (eg dub or overlay sound track onto film sequence; integrate a audio or video sequence with another application): Techniques: Copy and paste, insert, screen grabs/shots,</p> <p>File download (eg connect USB lead, drag and drop), file transfer protocol (FTP)</p> <p>Forms of information: sound; pre-recorded, live, web-streaming</p> <p>Copyright constraints: Effect of copyright law (eg on music downloads or use of other people's images), acknowledgment of sources, avoiding plagiarism, permissions</p> |
| Play and present audio sequences | Explain the features and constraints of playback software and devices as appropriate for different purposes | <p>Features and constraints: Software supported, memory, processing speed, screen resolution, data bandwidth, transmission speeds</p> <p>Display device: PC, laptop, video camera, Dictaphone, mobile phone, handheld audio or video device (eg mp3 player, iPod)</p> <p>Audio quality issues: High or low contrast, volume, visual (eg colour balance, jerkiness, dropping frames, break-up, freezes, blurriness, pixilation), sound (eg clicks, disjoints, noise), unwanted objects</p> <p>Adjust playback and display settings: Playback controls, sound, screen size: visual, screen resolution, colour balance, sound quality</p> |
| | Select and use an appropriate combination of audio playback software and devices to suit the file format | |
| | Present sequences effectively by exploiting the features and settings of the playback software and devices to maximise quality and meet needs | |
| | Evaluate the quality of sequences and explain how to respond to quality issues and problems | |

Bespoke Software (J/502/4397)

| Level 3 | | |
|--|--|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Input and combine information using bespoke software | Input relevant information accurately so that it is ready for processing | <p>Types of bespoke information: Information will vary according to the software for example, text, numbers, photos, scanned images, graphic elements, digital recorded sound, graphs, charts, tables</p> <p>Inputting information: Inputting tools and techniques will vary according to the technology being used: for example, interface</p> |
| | Select and use appropriate techniques to link and combine information within the | |

| Level 3 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | application and across different software applications | <p>devices (eg keyboard, mouse, stylus, touch screen), microphone (eg headset, built-in), camera (eg web cam, video camera, mobile phone camera); shortcuts, customise keys</p> <p>File types and software: Text (eg rtf, doc, pdf), images (eg jpeg, tiff, psd), charts and graphs (eg xls), sound (eg wav, MP3)</p> <p>Combining information techniques: Insert, size, position, wrap, order, group; import data, links and references to external data, version control; export data</p> |
| Create and modify appropriate structures to organise and retrieve information efficiently | Evaluate the use of software functions to structure, layout and style information | <p>Structures, layouts and conventions: Apply and change existing templates, set up templates for common information, apply or change existing styles, set up styles for information</p> <p>Manage data files: File storage, data import and export, restore lost data; identify ineffective backup storage</p> <p>Guidelines for the storage and use of data: Set by employer or organisation. Policies relating to security, backup and data protection; guidelines for data format; compliance, audit and reporting requirements File management will vary according to the application.</p> |
| | Create, change and use appropriate structures and/or layouts to organise information efficiently | |
| | Manage data files effectively, in line with local and/or legal guidelines and conventions for the storage and use of data where available | |
| Exploit the functions of the software effectively to process and present information | Select and use appropriate tools and techniques to edit, analyse and format information | <p>Editing, analysis and formatting techniques: Techniques will vary according to the software and task, for example:</p> <p>Editing – select, insert, delete, cut, copy, paste, drag and drop, find, replace, page layout, labelling, alignment, orientation, colour, resolution, size, pitch</p> <p>Analysis – design queries, mathematical, logical or statistical functions</p> <p>Formatting – characters, lines, paragraphs, pages, file type</p> <p>Check information: Checks will vary according to the type of information and software, but could include: spell check, grammar check, accuracy of figures, labelling and size of images, volume of sound, quality of images and sound, that line, paragraph and page breaks fall appropriately, formatting is</p> |
| | Check information meets needs, using IT tools and making corrections as necessary | |
| | Identify and respond appropriately to quality problems to ensure that outcomes are fit for purpose and meet needs | |
| | Select and use presentation methods to aid clarity and meaning | |

| Level 3 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | | <p>consistent, the use of headings and subheadings aid clarity, the placing of images or sound clips</p> <p>Quality problems with outcomes: Will vary according to the content, for example, text (eg formatting, structure), images (eg size, position, orientation), numbers (eg decimal points, accuracy of calculations), sound (eg volume, sound clip out of sync)</p> <p>Presentation methods: Methods will vary according to the software and task, for example, on screen display, publishing on a web site, hard copy print out, digital file; organisational house style, branding</p> |

Computerised Accounting Software (L/502/4403)

| Level 3 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Access, enter and edit accounting information | Set up procedures for entry of accounting data accurately into records to meet requirements | <p>Enter accounting data: Use of data entry form and wizards; add/amend record (customer record, supplier record, stock record; sales/purchase order; invoice, nominal/bank record); upload from file; journal entries; asset register</p> <p>Locate and display: Search, sort, print records, filters</p> <p>Check data: Spell check, format, consistency, remove duplication, verify data; edit details; check calculations; check coding, manage others' work</p> <p>Characteristics of accounting data: Unique references; codes; statutory requirements; editing restrictions</p> <p>Security risks and procedures: Access control; authorised use, confidentiality, personal data, password protection and management, user authentication</p> <p>Handle data files: File storage, data import and export, restore lost data; identify ineffective backup storage</p> <p>Guidelines for the storage and use of data: Set by employer or organisation. Policies relating to security, backup and data protection; guidelines for data format; compliance, audit and reporting requirements File management will vary according to the application.</p> <p>Data entry errors: Due to field size, datatype, validation checks; duplicate records; format; using help, error codes, troubleshooting; logging, reporting and dealing with application errors</p> |
| | Explain how to code new entries | |
| | Locate and display accounting data records to meet requirements | |
| | Check data records meet needs using IT tools, making corrections as necessary | |
| | Explain the risks to data security and procedures used for data protection | |
| | Handle data files effectively, in line with local or legal guidelines and conventions for the storage and use of data where available | |
| | Interpret and respond appropriately to a range of data and application error messages | |
| Process business transactions from source documents | Select and connect communication hardware safely to an IT system | <p>Process transactions: Number of items: single items, batches. Transaction templates. (Types of transactions may include: Post invoice; receipts; payments; foreign currency. From: bank statement, cheque book, paying-in book)</p> <p>Monitor accounts: Set flags, set credit limit or other constraints</p> |
| | Use software tools to monitor accounts | |
| | Respond appropriately to any transaction errors and problems | |
| | Process period and year end routines | |

| Level 3 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | | Transaction errors and problems: Record duplication, reversing transactions, Reported errors and problems |
| Develop and interpret management information reports | Explain what information is required and how to present it | Management reports: Create, amend and save report templates, Reports will vary according to task, but may include for example: Trial balance; customer activity; day book; aged creditor/debtor analysis; sales/purchase day book; profit and loss; balance sheet, VAT or intrastate reporting, Accounting documents: Will vary according to task, but may include for example: Invoice, sales order, purchase order, statement. To screen, printed for email Customise and format: Field selection; layout; working with templates, filters, formatting, sorting, calculated fields Export and link data: Other file formats (eg csv, xls), for export and link to other systems and software |
| | Generate and interpret management reports as required | |
| | Customise and format accounting documents and reports according to requirements | |
| | Import and export data and link to other systems | |
| Set up a computerised accounting system ready for use | Install and update accounting software as require | Configure accounting software; System defaults (VAT codes, year end etc) Create code system, nominal ledger structure, project costing; online banking Package parameters: VAT and currency rates; reporting levels, access/password control, discount levels, exchange rates |
| | Configure accounting software for use | |
| | Set up package parameters | |
| | Set up initial account balances | |

Data Management Software (A/502/4560)

| Level 3 | | |
|---|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Enter, edit and maintain data records in a data management system | Discuss when and how to change or create a new data entry form | Benefits of data management system: accessible, reliable, rapid access, shared view, up-to-date, accurate, secure; simplifies data handling; constraints of using system, audit trail Enter data: Use of data entry form, create new record, add record to table, create new record, add record to table, select and update fields; groups of records |
| | Enter data accurately into records to meet requirements | |
| | Configure characteristics of groups of records | |

| Level 3 | | |
|--|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | <p>Discuss and explain how to locate and amend data records</p> <p>Check data records meet needs, using IT tools and making corrections as necessary</p> <p>Interpret and respond appropriately to a range of data and application error messages</p> <p>Evaluate and explain the risks to data security and procedures used for data protection</p> <p>Manage data files effectively, in line with local and/or legal guidelines for the storage and use of data where available</p> | <p>Record characteristics: Attributes, categories, teams, flags, keys</p> <p>Check data: Spell check, format, consistency, remove duplication, verify data; data validation techniques, record housekeeping</p> <p>Error messages: Data entry; using help; troubleshooting; logging, reporting and dealing with application errors</p> <p>Security risks and procedures: Access control; authorised use, password protection and management, user authentication</p> <p>Manage data files: File storage, data import and export, restore lost data; identify ineffective backup storage</p> <p>Guidelines for the storage and use of data: Set by employer or organisation. Policies relating to security, backup and data protection; guidelines for data format; compliance, audit and reporting requirements File management will vary according to the application.</p> |
| Retrieve and display data records to meet requirements | <p>Determine and explain what queries and reports need to be run to output the required information</p> <p>Create and use queries to search for and retrieve information from the system</p> <p>Create, define and set up reports to output information to meet requirements</p> <p>Use the file handling techniques of the software to import and export data</p> | <p>Search and retrieve: Alphanumeric sort, filter, multiple criteria, cross-tabulate data; queries to update and amend data; logical operators</p> <p>Reports: Customised reports; define report parameters; for others; system reports; errors in reports</p> <p>Import and export data: To other systems or software; file formats; mail merge; data migration; data archiving</p> |

Database Software (T/502/4556)

| Level 3 | | |
|--|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Plan, create and modify relational database tables to meet requirements | Use available techniques to combine and link data | <p>Database design: What types of information are stored, use of data entry form, routine queries, how data is structured in a single table non-relational database, use of indexes and key field to organise data, how relationships are established in a multiple-table database, how data is structured in a multiple-table database, what logical operators are and how to use them; schema</p> <p>Field characteristics: Datatype, field name, field size, field format, validation; primary and secondary keys; lookup tables</p> <p>Relationships between database tables: One to one; one to many; many to many</p> <p>Data integrity: Unique not null primary key; field characteristics; data validation; consistency, completeness, accuracy; Effect of malicious or accidental alteration; methods for maintaining integrity of data in a multiple table database; referential integrity, foreign keys</p> |
| | Explain how a rational database design enables data to be organised and queried | |
| | Plan and create multiple tables for data entry with appropriate fields and properties | |
| | Set up and modify relationships between database tables | |
| | Explain why and how to maintain data integrity | |
| | Respond appropriately to problems with database tables | |
| Enter, edit and organise structured information in a database | Use database tools and techniques to ensure data integrity in maintained | <p>Enter, edit and organise data: Select and update fields, create new records, locate and amend records; using wildcards, search operators</p> <p>Format data entry forms: Field characteristics and layout, tables, colour, lookups, styles</p> <p>Check data entry: Spell check, format, accuracy, consistency, completeness, validity, security, fitness for purpose</p> <p>Data entry errors: Due to field size, data type, validation checks; using help; deal with data that does not fit parameters, alerts, reminders; problems with forms</p> |
| | Design and create forms to access, enter, edit and organise data in a database | |
| | Select and use appropriate tools and techniques to format data entry forms | |
| | Check data entry meets needs, using IT tools and making corrections as necessary | |
| Use database software tools to create, edit and run data queries and produce reports | Explain how to select, generate and output information from queries according to requirements | <p>Database queries: Alphanumeric sort, filter, single criteria, multiple criteria; save queries and output, cross-tabulate data; queries to update and amend data; logical operators</p> <p>Database reports: Using menus, wizards or shortcuts; selected fields; selected records</p> |
| | Create and run database queries to display, amend or calculate selected data | |

| Level 3 | | |
|---|--|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | Plan and produce database reports from a multiple-table relational database Select and use appropriate tools and techniques to format database reports Check reports meet needs, using IT tools and making corrections as necessary. | Formatting database reports: Data fields; page and section layout; add text or images; adjust page setup for printing; styles Check data entry: Completeness, accuracy, security, sorting, formatting, layout, fitness for purpose |

Design Software (A/502/4574)

| Level 3 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| <p>Obtain, insert and combine information for designs</p> | <p>Explain what designs are needed</p> | <p>Designs or images: Designs or images will vary according to the task for example, photos from a digital camera, scanned images, graphic elements, drawings, clip art</p> <p>Prepare images: Size, crop and position</p> <p>Copyright constraints: Effect of copyright law (eg on use of other people's images), acknowledgment of sources, avoiding plagiarism, permissions,</p> <p>Combine information: Insert, size, position, wrap, order, group, layer, import data, links and references to external data, version control, export data</p> <p>Context for designs and images: Contexts will vary according to the software and task, for example: on screen display, publishing on a web site, hard copy print out, digital file</p> <p>File formats for designs and images: Will vary according to the content, for example jpg for Internet photo display, png for Internet drawing display, svg for graphic designs (the ISO standard most likely to be fully supported by web browsers); Digital picture format (e.g. jpeg and psd) Bitmap or raster picture formats (eg raw bitmaps, bmp and compressed formats jpeg and png) Vector graphics (eg svg, wmf, eps, ai) Open formats (eg html, odf, pdf and rtf) Proprietary formats (eg pub and qxd) Method of compression (lossy, non-lossy) Converting files between different formats (eg JPEG to TIFF, compression of image data or Grayscale)</p> <p>Store and retrieve: Files (eg create, name, open, save, save as, print, close, find); folders (eg create, name); archive (backup, restore)</p> |
| | <p>Explain how the context affects the way designs should be prepared</p> | |
| | <p>Provide guidance on what and how any copyright or other constraints may apply to the use of own and others' designs</p> | |
| | <p>Obtain, insert and prepare designs</p> | |
| | <p>Explain how file format affects design quality, format and size and how to choose appropriate formats for saving designs</p> | |
| | <p>Use appropriate techniques to organise and combine information of different types or from different sources</p> | |
| | <p>Store and retrieve files effectively, in line with guidelines and conventions where available</p> | |

| Level 3 | | |
|---|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| <p>Use design software tools to create, manipulate and edit designs</p> | <p>Explain what technical factors affecting designs needs to be taken into account and how to do so</p> | <p>Technical factors affecting designs and images: Page or canvas size; colour mode; file size and format; image resolution; method of display or printing; colour depth; technical differences between vector and bitmap or raster graphics</p> <p>Create designs and images: Draw basic shapes and edit vector properties to create new and more complex shapes; download digital photos from a camera; scan and resize images; add text and other elements such as lines, boxes and arrows; create more complicated designs using painting, drawing or image manipulation software; use layers for different elements (eg background, picture and text); use bleeds and crossovers; three dimensional (3D) objects and designs</p> <p>Manipulate and editing techniques: Basic techniques – align, rotate, flip, arrange, cut, paste, resize, change font, text and colour, group, ungroup</p> <p>Image manipulation software – transform, scale, rotate, distort; filters, effects; colour balance, levels and curves; masks and layers</p> <p>Illustration software – masks and layers; rendering three dimensional (3D) objects; tracing</p> <p>Advanced techniques – change resolution, colour depth and file format to suit different uses; adjust images to ensure compatibility between different software and operating systems</p> <p>Check designs and images: Size, alignment and orientation, suitability of file format, appropriate choice of colour mode and use of filters, fitness for purpose of image resolution</p> <p>Quality problems with designs and images: Will vary according to the content, for example, levels, contrast, resolution, colour balance, unwanted content</p> |
| | <p>Select and use suitable tools and techniques efficiently to create designs</p> | |
| | <p>Use guidelines and dimensioning tools appropriately to enhance precision</p> | |
| | <p>Select and use appropriate tools and techniques to manipulate and edit designs</p> | |
| | <p>Check designs meet needs, using IT tools and making corrections as necessary</p> | |
| | <p>Identify and respond appropriately to quality problems to ensure that outcomes are fit for purpose and meet needs</p> | |

Desktop Publishing Software (H/502/4567)

| Level 3 | | |
|--|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Select and use appropriate designs and page layouts for publications | Explain what types of information are needed | <p>Types of information: Text, images, graphics, video, sound</p> <p>Page design and layout: Organisation of information, size, white space, columns, consistency, orientation, proportion, balance, symmetry</p> <p>Local guidelines: Templates, house style, branding, publication guidelines; existing styles and schemes, refinements to styles and schemes; new specially defined styles and schemes</p> <p>Publication media: Web, document, multimedia</p> |
| | Explain when and how to change page design and layout to increase effectiveness of a publication | |
| | Select, change, define, create and use appropriate page design and layout for publications in line with local guidelines, where relevant | |
| | Select and use appropriate media for the publication | |
| Input and combine text and other information within publications | Find and input information into a publication so that it is ready for editing and formatting | <p>Input information: using keyboard, mouse, scanner, voice recognition, touch screen, stylus</p> <p>Combine information for publications: Combine images with text and graphic elements (eg borders, lines, panels, shading, logos) import information produced using other software, reference external information with hyperlinks, object linking or embedding</p> <p>Copyright constraints: Effect of copyright law (eg on music downloads or use of other people's images), acknowledgment of sources, avoiding plagiarism, permissions</p> <p>File formats for designs and images: Will vary according to the content, for example jpg for Internet photo display, png for Internet drawing display, svg for graphic designs (the ISO standard most likely to be fully supported by web browsers)</p> <p>Digital picture format (e.g. jpeg and psd)</p> <p>Bitmap or raster picture formats (eg raw bitmaps, bmp and compressed formats jpeg and png)</p> <p>Vector graphics (eg svg, wmf, eps, ai)</p> <p>Store and retrieve: Files (eg create, name, open, save, save as, print, close, find, share); version control; import/export; file size; file properties; folders (eg create, name); archive (backup, restore)</p> |
| | Organise and combine information for publications in line with any copyright constraints, including importing information produced using other software | |
| | Provide guidance on how copyright constraints affect use of own and others' information | |
| | Explain which file format to use for saving designs and images | |
| | Store and retrieve publication files effectively, in line with local guidelines and conventions where available | |

| Level 3 | | |
|--|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Use desktop publishing software techniques to edit and format publications | Determine and discuss what styles, colours, font schemes, editing and formatting to use for the publication | <p>Edit publications: Drag and drop, find, replace, undo redo, size, crop and position, use layout guides</p> <p>Format text: Existing styles and schemes for font (typeface), size, orientation, colour, alignment</p> <p>Manipulate images and graphic elements: Size, crop, position, maintain proportion, border</p> <p>Control text flow: In columns, around images and graphic elements, between pages</p> <p>Check publications: Spell check; grammar check, word count; image size, alignment and orientation, suitability of file format; Completeness, accuracy, orientation, layout, text alignment and formatting</p> <p>Quality problems with publications: Will vary according to the content, for example, text (eg text wrapping, styles), images (eg levels, contrast, resolution, colour balance, unwanted content)</p> |
| | Create styles, colours and font schemes to meet needs | |
| | Select and use appropriate techniques to edit publications and format text | |
| | Manipulate images and graphic elements accurately | |
| | Control text flow within single and multiple columns and pages | |
| | Check publications meet needs, using IT tools and making corrections as necessary | |
| | | |

[Drawing and Planning Software \(F/502/4611\)](#)

| Level 3 | | |
|---|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Input, organise and combine information for drawings or plans | Identify what types of shapes and other elements will be needed | <p>Shapes and other elements: Shapes will vary according to the required outcome, for example: flow chart shapes, building plan shapes, audit</p> <p>Other elements: graphic elements (eg lines, arrows, borders, backgrounds, clip art), text, numbers</p> <p>Input information: Inputting tools and techniques will vary according to the technology being used: for example, interface</p> |
| | Evaluate templates and explain why and how they need to be changed to meet needs | |
| | Select, adapt, create and use the appropriate shapes to meet needs, including shapes imported from other sources | |

| Level 3 | | |
|---|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | <p>Select, adapt, define and create appropriate templates and styles to meet needs</p> <p>Provide guidance on what copyright constraints apply to the use of own and others' shapes or other elements</p> <p>Combine information for drawings or plans including exporting outcomes to other software</p> <p>Store and retrieve drawing files effectively, in line with local guidelines and conventions where available</p> | <p>devices (eg keyboard, mouse, stylus, touch screen), microphone (eg headset, built-in), camera (eg web cam, video camera, mobile phone camera)</p> <p>Templates and styles: Existing templates and styles, working from an example document; adapt templates, apply styles; create new templates, define new styles and colour schemes</p> <p>Copyright constraints: Effect of copyright law (eg on music downloads or use of other people's images), acknowledgment of sources, avoiding plagiarism, permissions</p> <p>Combine information: Insert, size, position, wrap, order, group.....</p> <p>Store and retrieve: Save, save as, find, open, close, import, export, other file formats,</p> |
| <p>Use tools and techniques to edit, manipulate, format and present drawings or plans</p> | <p>Explain what drafting guides to use so that the shapes and other elements are appropriately prepared</p> <p>Select and use appropriate software tools to manipulate and edit shapes and other elements with precision</p> <p>Select and use appropriate software tools to format shapes and other elements, including applying styles and colour schemes</p> <p>Check drawings or plans meet needs, using IT tools and making corrections as necessary</p> <p>Identify and respond to quality problems with drawings or plans to make sure they are fit for purpose and meet needs</p> <p>Explain what context the drawings and plans will be used in and how this will affect how they are presented</p> | <p>Drafting guides: Grids, snap to grid, snap to shape, rulers, guidelines</p> <p>Manipulate and edit shapes and other elements: Will vary, for example: Edit: select, insert, delete, cut, copy, paste, drag and drop, find, replace</p> <p>Text: font, colour, alignment</p> <p>Shapes: size, colour, orientation, connections to other shapes and elements, add labels</p> <p>Format shapes and other elements: Will vary, for example: text (eg font, paragraphs, text block, tabs, bullets), lines (eg width, length, colour, endings, beginnings), drawing elements (eg fill, shadow, corners), connections between shapes and other elements</p> <p>Protection: length, width, axis. Behaviour: interaction, selection highlighting</p> |

| Level 3 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | Select and use appropriate presentation methods and accepted page layouts | <p>Check drawings and plans: Spell check, grammar check, accuracy of numbers, labelling and size of shapes, connections between shapes and other elements</p> <p>Presentation methods: Will vary according to the task, for example, on screen display, publishing on a web site, hard copy print out, digital file; organisational house style, branding</p> <p>Quality problems with drawings and plans: Will vary according to the content, for example, text (eg formatting, styles, positioning), shapes (eg size, position, orientation, unwanted content), other elements (eg scale, thickness, colour, connections), page layout, proportion, balance, symmetry</p> |

Imaging Software (R/502/4614)

| Level 3 | | |
|---|--|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Obtain, insert and combine information for images | Explain what images are needed | <p>Designs or images: Designs or images will vary according to the task for example, photos from a digital camera, scanned images, graphic elements, drawings, clip art</p> <p>Prepare images: Size, crop and position</p> <p>Copyright constraints: Effect of copyright law (eg on use of other people's images), acknowledgment of sources, avoiding plagiarism, permissions,</p> <p>Combine information: Insert, size, position, wrap, order, group, layer, import data, links and references to external data, version control, export data</p> <p>Context for designs and images: Contexts will vary according to the software and task, for example: on screen display, publishing on a web site, hard copy print out, digital file</p> <p>File formats for designs and images: Will vary according to the content, for example jpg for Internet photo display, png for Internet drawing display, svg for graphic designs (the ISO standard most likely to be fully supported by web browsers); Digital picture format (e.g. jpeg and psd) Bitmap or raster picture formats (eg raw bitmaps, bmp and compressed formats jpeg and png) Vector graphics (eg svg, wmf, eps, ai) Open formats (eg html, odf, pdf and rtf) Proprietary formats (eg pub and qxd) Method of compression (lossy, non-lossy) Converting files between different formats (eg JPEG to TIFF, compression of image data or Grayscale)</p> <p>Store and retrieve: Files (eg create, name, open, save, save as, print, close, find); folders (eg create, name); archive (backup, restore)</p> |
| | Explain how the context affects the way images should be prepared | |
| | Provide guidance on what and how any copyright or other constraints may apply to the use of own and others' images | |
| | Obtain, insert and prepare images | |
| | Explain how file format affects image quality, format and size and how to choose appropriate formats for saving images | |
| | Use appropriate techniques to organise and combine information of different types or from different sources | |
| | Store and retrieve files effectively, in line with guidelines and conventions where available | |

| Level 3 | | |
|---|--|--|
| Learning outcomes | Assessment Criteria | Examples |
| The learner will.... | The learner can... | |
| <p>Use image software tools to create, manipulate and edit images</p> | <p>Explain what technical factors affecting images needs to be taken into account and how to do so</p> | <p>Technical factors affecting designs and images: Page or canvas size; colour mode; file size and format; image resolution; method of display or printing; colour depth; technical differences between vector and bitmap or raster graphics</p> |
| | <p>Select and use suitable tools and techniques efficiently to create images</p> | <p>Create designs and images: Draw basic shapes and edit vector properties to create new and more complex shapes; download digital photos from a camera; scan and resize images; add text and other elements such as lines, boxes and arrows; create more complicated designs using painting, drawing or image manipulation software; use layers for different elements (eg background, picture and text); use bleeds and crossovers; three dimensional (3D) objects and designs</p> |
| | <p>Use guide lines and dimensioning tools appropriately to enhance precision</p> | <p>Manipulate and editing techniques: Basic techniques – align, rotate, flip, arrange, cut, paste, resize, change font, text and colour, group, ungroup</p> |
| | <p>Select and use appropriate tools and techniques to manipulate and edit images</p> | <p>Image manipulation software – transform, scale, rotate, distort; filters, effects; colour balance, levels and curves; masks and layers</p> |
| | <p>Check images meet needs, using IT tools and making corrections as necessary</p> | <p>Illustration software – masks and layers; rendering three dimensional (3D) objects; tracing</p> |
| | <p>Identify and respond appropriately to quality problems to ensure that outcomes are fit for purpose and meet needs</p> | <p>Advanced techniques – change resolution, colour depth and file format to suit different uses; adjust images to ensure compatibility between different software and operating systems</p> <p>Check designs and images: Size, alignment and orientation, suitability of file format, appropriate choice of colour mode and use of filters, fitness for purpose of image resolution</p> <p>Quality problems with designs and images: Will vary according to the content, for example, levels, contrast, resolution, colour balance, unwanted content</p> |

Improving Productivity Using IT (L/502/4157)

| Level 3 | | |
|--|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Plan, select and use appropriate IT systems and software for different purposes | Explain the purpose for using IT | <p>Purposes for using IT: Who and what the information is for, when it must be finished, what information needs to be included, where it will be used (on screen, sent to others, printed)</p> <p>Plan task: What information sources are needed, how they will be found and evaluated, what application software will be used, what skills and resources are needed to complete the task successfully, requirements for content, structure and layout; priorities, potential problems</p> <p>Factors that may affect the task: Access to information, steps that need to be taken in advance, availability of time, budget and resources; audience need</p> <p>Reasons for choosing IT: Time, convenience, cost; benefits of IT or manual methods of preparing, processing, presenting and managing information; convenience and effectiveness at meeting needs, quality, accuracy; how IT can make tasks easier than other methods, streamline business processes, increase productivity, any difficulties people have in using IT, ROI Legal or local guidelines or constraints: May include data protection, copyright, software licensing; security; organisational house-style or brand guidelines</p> |
| | Analyse the methods, skills and resources required to complete the task successfully | |
| | Analyse any factors that may affect the task | |
| | Critically compare alternative methods to produce the intended outcome | |
| | Develop plans for using IT for different tasks and purposes, including contingencies | |
| | Select and use appropriate IT systems and software applications to produce effective outcomes | |
| | Explain why different software applications could be chosen to suit different tasks, purposes and outcomes | |
| | Explain any legal or local guidelines or constraints which apply to the task or activity | |
| Evaluate the selection and use of IT tools to make sure that activities are successful | Critically compare the strengths and weaknesses of own and other people's final | <p>Strengths and weaknesses of final work: Format, layout, accuracy, clarity for audience, structure, style, quality, efficiency</p> <p>Review use of IT tools: Evaluate whether the IT tools and techniques are appropriate to the task and intended outcome, run user tests, compare with other IT tools and techniques, find ways to optimise the choice and approach</p> <p>Review outcomes: Evaluate the quality of the information used, produce drafts, review against initial plans, check with intended audience, impact of work on others</p> |
| | Review ongoing use of IT tools and techniques and change the approach as needed | |
| | Evaluate and test solutions to make sure they match requirements and are fit for purpose | |
| | Be prepared to give feedback on other people's selection and use of IT tools | |

| Level 3 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | Explain different ways to make further improvements to work | Improvements to work: Correct mistakes, avoid affecting other people's work, more efficient and effective ways of doing things, learning new techniques; ways to improve others' or organisational efficiency Give feedback: Strengths, weaknesses, potential improvements |
| Devise solutions to improve the use of IT tools and systems for self and others | Evaluate the productivity and efficiency of IT systems and procedures used by self and others | Ways to improve productivity and efficiency: Save time, save money, streamline work processes, increase output, improve quality of outputs; total cost of solution; business benefit Develop solutions: Set up short cuts, customise interface, record macros, create templates, create style guides; streamline business processes |
| | Research and advise on ways to improve productivity and efficiency | |
| | Develop solutions that make a demonstrable improvement to the use of IT tools and systems | |
| | Test solutions to make sure that they work as intended | |
| | Recommend improvements to IT systems and procedures that increase productivity | |

IT Security for Users (D/502/4258)

| Level 3 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Select, use and develop appropriate procedures to monitor and minimise security risk to IT systems and data | Evaluate the security issues that may threaten system performance | Threats to system performance: Unwanted e-mail (often referred to as "spam"), malicious programs (including viruses, worms, trojans, spyware, adware and rogue diallers) and hackers; hoaxes; vulnerability Security precautions: Use access controls. Configure anti-virus software, adjust firewall settings, adjust internet security settings; carry out security checks, report security threats or breaches; |
| | Select, use and evaluate a range of security precautions to protect IT systems and monitor security | |
| | Evaluate the threats to system and information security and integrity | |

| Level 3 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | <p>Manage access to information sources securely to maintain confidentiality, integrity and availability of information</p> <p>Explain why and how to minimise security risks to hardware, software and data for different users</p> <p>Apply, maintain and develop guidelines and procedures for the secure use of IT</p> <p>Select and use effective backup and archiving procedures for systems and data</p> | <p>backup; store personal data and software safely; treat messages, files, software and attachments from unknown sources with caution; proxy servers; download security software patches and updates; effectiveness of security measures;</p> <p>Threats to information security: From theft, unauthorised access, accidental file deletion, use of removable storage media; malicious programs (including viruses, worms, trojans, spyware, adware and rogue diallers), hackers, phishing and identity theft; unsecured and public networks, default passwords and settings, wireless networks, Bluetooth, portable and USB devices</p> <p>Access to information sources: Username and password/PIN selection and management, online identity/profiles; Respect confidentiality, avoid inappropriate disclosure of information; digital signatures; data encryption; security classification, preserve availability</p> <p>Minimise risk: Access controls: Physical controls, locks, passwords, access levels, data protection, data retention. Security measures: anti-virus software, firewalls, security software and settings. Risk assessment: anti-spam software, software updates; risk management; user profiles, operating system settings, user authentication (ID cards, smart cards, biometrics); risks associated with widespread use of technology</p> <p>Security guidelines and procedures: Set by: employer or organisation, privacy, laws and regulations, disaster recovery plans, contingency systems, dealing with security breaches, backup procedures; administrative procedures and controls</p> |

Multimedia Software (H/502/4617)

| Level 3 | | |
|--|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Plan the content and organisation of multimedia products to meet needs | Select and use appropriate techniques to plan and communicate the content, design and layout of multimedia outcomes | <p>Plan and communicate: Flow chart, storyboard, sketches</p> <p>Multimedia outcome: Website, CD ROM, animation sequence, presentation</p> <p>Specification: No of pages, features, audience, types of content, interactive elements</p> <p>Interactive features and transitions: Menus, submenus, buttons, links, pop-ups: video clips, sound clips; animation</p> <p>Design layout: Organisation of information, size, frames, orientation, consistency, proportion, balance, symmetry</p> <p>Copyright constraints: Effect of copyright law (eg on music downloads or use of other people's images), acknowledgment of sources, avoiding plagiarism, permissions</p> |
| | Plan the use of interactive features, transitions and effects to meet needs | |
| | Explain the type of multimedia outcome needed and the specification that it must meet | |
| | Develop the design layout for multimedia outcomes | |
| | Explain how the different elements of the content will relate and what elements of the content will be interactive | |
| | Summarise how copyright and other constraints affect use of own and others' information | |
| Obtain, input and combine content to build multimedia outcomes | Select and use an appropriate combination of input device, software and input techniques to obtain and input the relevant content | <p>Input device: Inputting tools and techniques will vary according to the technology being used: for example, interface devices (eg keyboard, mouse, stylus, touch screen), microphone (eg headset, built-in), camera (eg web cam, video camera, mobile phone camera)</p> <p>Combine information: Insert, size, position, wrap, order, group, import data, links and references to external data, version control; export data</p> <p>File format for multimedia outcomes: Will vary according to the content, for example jpg for Internet photo display, png for Internet drawing display, svg for graphic designs (the ISO standard most likely to be fully supported by web browsers)</p> <p>Store and retrieve: Save, save as, find, open, close; reduce file size, file properties, import and export</p> |
| | Combine information of different types or from different sources for multimedia outcomes | |
| | Select and use appropriate software to write and compress multimedia files | |
| | Store and retrieve multimedia files effectively, in line with local guidelines and conventions where available | |
| | Explain when and why to use different file formats and file compression for saving multimedia files | |

| Level 3 | | |
|---|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Use tools and techniques to build and edit multimedia content | Select and use appropriate techniques to edit and format multimedia outcomes | <p>Edit multimedia outcomes: Size, crop and position, use layout guides; Existing styles and schemes for font (typeface), size, orientation, colour, alignment</p> <p>Manipulate images and graphic elements: Size, crop, position, maintain proportion, border</p> <p>Styles, colours and font schemes: Existing styles and schemes</p> <p>Check multimedia outcomes: Completeness, accuracy, layout, formatting, animation, sound, sequence; review against requirements</p> <p>Quality problems: Will vary according to the content, for example, sound (eg noise, volume), images (eg levels, contrast, unwanted content), text (eg clarity, spelling, grammar, structure)</p> |
| | Manipulate images and graphic elements accurately | |
| | Check multimedia outcomes meet needs, using IT tools and making corrections as necessary | |
| | Identify and respond appropriately to quality problems to ensure that outcomes are fit for purpose and meet needs | |
| Play and present multimedia outcomes | Explain what combination of display device and software to use that will overcome any constraints there may be in displaying different multimedia file formats | <p>Display devices: PC, laptop, mobile device, TV</p> <p>Display multimedia outcomes: Thumbnail, quarter screen, full screen, screen resolution, data bandwidth, transmission speeds, output media; constraints (eg speed of delivery, size of files, end user hardware and software configuration)</p> <p>Display settings: Visual: brightness, contrast, screen resolution, colour balance, monochrome Sound: volume, treble, bass, balance; Animation: speed</p> |
| | Select and use appropriate software to optimise the display of multimedia outcomes and maximise impact | |
| | Select and adjust the display settings to exploit the features of the display device and optimise the quality of the presentation | |

Optimise IT System Performance (K/502/4246)

| Level 3 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Keep computer hardware and software operating efficiently | Explain the factors that should be taken into account when choosing an operating system | <p>Fault finding procedures: Recommended by the manufacturer, diagnostic tools and probes; maintain fault log</p> <p>Security software: Anti-virus, malware. Frequency; timing; updates, firewall settings</p> <p>Characteristics of operating systems: Cost, ease of use, compatibility with software, proprietary or open source; availability of support; additional features</p> |
| | Take appropriate steps to protect computer hardware from loss or damage | |
| | Explain why routine fault-finding procedures are important | |
| | Use an appropriate fault-finding procedure to routinely monitor hardware performance | |
| | Configure anti-virus and other security software | |
| | Install and configure printers and other peripheral devices | |
| | Configure synchronisation and maintain security on remote access sessions | |
| | Configure a computer to present or display information to an audience | |
| Manage files to maintain and improve performance | Explain why it is important to undertake file housekeeping of the information stored on computer systems and how it affects performance | <p>Information storage: Data files, folders, sub-folders, storage media; archives</p> <p>File housekeeping: Naming and labelling conventions; organising files, folders and storage media; saving back-ups; deleting unwanted files; changing default settings for saving data; file and folder options; sharing and synchronising files; disk management</p> |
| | Use file navigation software to organise files into an appropriate folder structure | |
| | Archive, backup and restore files and folders | |
| | Manage file and disk housekeeping so that information is secure and easy to find | |
| | Configure access to remote file systems | |
| | Distinguish between data and system file types | |

| Level 3 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Troubleshoot and respond to IT system problems quickly and effectively | Assess IT system problems, explain what causes them and how to respond to them and avoid similar problems in the future | <p>IT system problems: Program not responding, paper jam, storage full, error dialogue, virus threat, memory low; connection loss; hardware and software compatibility problems, system slow; intermittent errors; technically complex or serious errors; unrecoverable system failure</p> <p>Record problems: Error log, description, frequency of occurrence, severity; impact</p> <p>Expert advice: Limits of own understanding and skills, help menus, manufacturer's guidelines, how to follow advice, information needed by experts, where to get advice to deal with different hardware and software problems</p> <p>System settings: Basic input/output settings (BIOS), memory usage, display settings, network settings, power usage</p> |
| | Carry out contingency planning to recover from system failure and data loss | |
| | Monitor and record IT system problems to enable effective response | |
| | Monitor system settings and adjust when necessary | |
| | Explain when and where to get expert advice | |
| | Help others to select and use appropriate resources to respond to IT system problems | |
| | Check that errors and problems have been resolved satisfactorily | |
| Plan and monitor the routine and non-routine maintenance of hardware and software | Clarify the resources that will be needed to carry out maintenance | Maintenance plans: Finance, expertise, materials, equipment |
| | Develop a plan for the maintenance of IT hardware and software | |
| | Monitor the implementation of maintenance plans, updating them where necessary | |
| Review and modify hardware and software to maintain performance | Use appropriate techniques to maintain software for optimum performance | <p>Maintain software: Install software patches and upgrades, install and uninstall software, install operating system upgrades; install maintenance updates; administrative tools and procedures</p> <p>Upgrade software: Benefits of upgrading, drawbacks of not upgrading, the need to check compatibility of software and hardware upgrades with other parts of the system, the importance of keeping up-to-date, return on investment</p> |
| | Clarify when and how to upgrade software | |
| | Review and modify hardware settings to maintain performance | |

Presentation Software (T/502/4623)

| Level 3 | | |
|---|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Input and combine text and other information within presentation slides | Explain what types of information are required for the presentation | Types of information: Text, numbers, images, graphics, sound, video, animated sequences |
| | Enter text and other information using layouts appropriate to type of information | Images, video or sound for presentations: Clip-art, photo, scanned images, borders, create diagrams or graphics, image formats: |
| | Insert charts and tables and link to source data | Pre-recorded audio/video clips; capturing audio or video; audio and video formats |
| | Insert images, video or sound to enhance the presentation | Charts and tables for presentations: Table, pie chart, graph, diagram, organisational chart, flowchart ; linked and embedded spreadsheet elements |
| | Identify any constraints which may affect the presentation | Combine information for presentations: Combine images, charts, tables with text by inserting, re-sizing and positioning; use of text boxes, presentation with audio and/or video, import information produced using other software; reference external information with hyperlinks, object linking or embedding; merge versions or slides from different files or users |
| | Organise and combine information for presentations in line with any constraints | Constraints: On content: copyright law (eg on music downloads or use of other people's images), acknowledgment of sources, avoiding plagiarism; equal opportunities; local guidelines; On delivery (eg environment, timing) |
| | Store and retrieve presentation files effectively, in line with local guidelines and conventions where available | Store and retrieve: Save, save as, find, open, close; naming protocols; reducing file size; save presentation as a stand alone show or as web pages, formats for export; file properties; password protection |
| Use presentation software tools to structure, edit and format presentations | Explain when and how to use and change slide structure and themes to enhance presentation | Slide structure: Layout, templates, design and style; organisational guidelines; adapt and create new templates |
| | Create, amend and use appropriate templates and themes for slides | Presentation effects: Video, sound, animation, slide transitions, visual and sound effects, hyperlinks; interactive elements |

| Level 3 | | |
|--|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | <p>Explain how interactive and presentation effects can be used to aid meaning or impact</p> <p>Select and use appropriate techniques to edit and format presentations to meet needs</p> <p>Create and use interactive elements to enhance presentations</p> <p>Select and use animation and transition techniques appropriately to enhance presentations</p> | <p>Edit presentation: Size, crop and position objects; wrap text; add captions and graphic elements; slide order; change orientation</p> <p>Animation and transition effects: Adding and removing hyperlinks; apply and create transitions, apply animations, action buttons</p> <p>Format slides: Bullets, numbering, line spacing, alignment, colour, fonts, size, backgrounds, colour schemes, master slides, themes</p> |
| Prepare interactive slideshow for presentation | <p>Explain how to present slides to communicate effectively for different contexts</p> <p>Prepare interactive slideshow and associated products for presentation</p> <p>Check presentation meets needs, using IT tools and making corrections as necessary</p> <p>Evaluate presentations, identify any quality problems and discuss how to respond to them</p> <p>Respond appropriately to quality problems to ensure that presentations meet needs and are fit for purpose</p> | <p>Present slides: Timing, content, meaning; organisation of information; audience needs; location, contexts</p> <p>Prepare slides: View and re-order slides; rehearse timing and effects; set up and amend slide show settings; print slides, handouts, speaker notes; export formats</p> <p>Check presentations: Spell check; grammar check, word count, orientation, layout, slide order, text alignment and formatting, accuracy, clarity, transitions and timings; choice and suitability of effects, actions and links</p> <p>Quality problems with presentations: Will vary according to the content, for example:</p> <p>Text: Formatting, styles, structure</p> <p>Images: Size, position, orientation, unwanted content</p> <p>Effects: Timing, brightness, contrast, sound levels, wrong order of animations, action buttons that do not work, sound clip out of sync</p> |

Project Management Software (H/502/4620)

| Level 3 | | |
|--|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Create and define a project | Explain the critical information about the project that must be included | Project information: Tasks, timescales, resources, stages, constraints; Source of information: provided by the person responsible for the project Store and retrieve: Save, save as, find, open, close; import project information |
| | Create, store and retrieve project management files in line with local guidelines where applicable | |
| | Define the project file properties and project options | |
| | Create master and subprojects | |
| | Create links across projects and manage changes to linked tasks | |
| Enter and edit information about project tasks and resources | Define and set up dependencies between tasks | Task types: Fixed cost, fixed duration, fixed work, critical, recurring Task information: Duration, status, set reminders, priority, assign resources, constraints, deadlines, outlines, recurrence, custom fields Task calendar: Working-time calendar, holidays, customise, charts (eg Gantt chart) Resources: People, time, costs, equipment; enterprise resources, shared resources |
| | Identify the critical tasks and milestones to be completed | |
| | Explain how to set up any deadlines and constraints which apply to the project | |
| | Enter and edit information about project tasks | |
| | Explain how to resolve issues of resource availability and utilisation | |
| | Enter and edit information about resources to be used in the project | |
| | Create and apply a task calendar for scheduling tasks | |
| | Identify and resolve any issues of resource allocation | |
| Update information about project progress | Explain the methods available to track project progress and review against plans | Task status: Complete, in progress, not started, percentage, tasks behind schedule, postpone task Risks and issues: Contingency plans, mitigation, associate with tasks or resources, alerts |
| | Use editing and formatting techniques to update project elements | |
| | Update task status in line with progress | |

| Level 3 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | Update information about resources as required Compare actual progress with project baseline and reschedule uncompleted tasks Identify and assess the impact of risks and issues on the project Manage information on project risks and issues | |
| Select and use appropriate tools and techniques to display and report on project status | Create and customise project reports to meet needs Use filtering and formatting techniques to display project information to meet needs Share project information with other applications | Project reports: Task progress, project progress, resource allocation and usage, costs Display project information: Task lists, resource assignment, project costs, critical path |

Set up an IT System (R/502/4211)

| Level 3 | | |
|--|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| <p>Select and connect up a personal computer safely with associated hardware and storage media to meet needs</p> | <p>Explain the reasons for choosing different system components and how to avoid any compatibility issues between hardware and software</p> | <p>Compatibility issues: What problems can occur when hardware, software and operating systems are not compatible; why compatibility standards are needed</p> <p>Health and safety issues: Health and safety issues, risks from hardware, electrical connection risks and guidelines, use and disposal of cleaning materials, handling equipment. Risks to self and others from using hardware; health and safety point of contact</p> <p>IT system performance: Processor speed, memory size, storage capacity, network capability; graphics; display adapter</p> <p>IT system components: Will vary according to the set up, for example: Personal computer, monitor, keyboard, mouse (or other pointing device)</p> <p>Peripheral devices: Speakers, modem, scanner, games console, joystick; TV, data projector, white board; Plug and play devices; customised setup routines, printer and other device drivers</p> <p>Storage media: Disk, CD/DVD, data/memory stick, media card, mobile device, removable hard drive; customised setup routines; backup media</p> <p>Reasons for choosing storage media: Performance, capacity, accessibility, portability, security</p> |
| | <p>Explain any health and safety issues associated with setting up an IT system</p> | |
| | <p>Explain the characteristics of IT systems that affect performance</p> | |
| | <p>Select and connect up the components of an IT system safely, including any peripheral devices and storage media</p> | |
| <p>Select and connect IT system to a communication service successfully to meet needs</p> | <p>Explain the reasons for choosing a communication service</p> | <p>Communication hardware: Router, modem, mobile data device, wireless router; cables, power supply; USB, parallel, serial connections</p> <p>Communication service: Broadband, dial up, wireless, network, mobile device, ISP, IP configuration</p> <p>Data transmission speed: Which combinations of hardware and software offer very fast or slower data transmission speeds; download capacity; how much speeds in transmitting, receiving and sending data may vary</p> |
| | <p>Explain what effect variations in data transmission speed may have</p> | |
| | <p>Select and connect communication hardware safely to an IT system</p> | |
| | <p>Select and connect to a communication service from an IT system</p> | |
| | <p>Explain the factors which influence choice of Internet Service Providers</p> | |

| Level 3 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Install and configure operating system and application software for use | Configure the user interface to meet needs | <p>User interface: Operating system, date, time, language settings; Set up administrator and user accounts; desktop shortcuts; customise start-up; memory usage; power management</p> <p>Security systems: Firewall, spyware, anti-spam software</p> <p>System backup: Disk partition, removable storage, disk or tape rotation, system restore points, physical location of backup</p> <p>Set up files and software applications: Software licence; installation disks; manuals; download, customised settings; download software; map network drive; register software; custom installations</p> |
| | Explain what security precautions need to be addressed for the system to be used securely online by several | |
| | Install, set up and configure virus protection and other security systems and software | |
| | Explain the benefits and risks of using disk partitions or other backup locations | |
| | Establish a backup routine for data and system | |
| | Install, set up and configure application software to meet needs | |
| Check that the IT system and communication service are working successfully | Explain what system tests and communication tests are needed and why | <p>System tests: Hardware and software; Print test pages, check files are saved on storage media, open and close applications; open and close files; access network files and applications; Certificates and labelling; check printer drivers; de-frag, delete unwanted system files, check backup strategy, restore system files, restore data files</p> <p>Communication tests: Send and receive test email, navigate to ISP website; ping IP address; check transmission speed</p> <p>Recovery procedures: Logs and records of system components and licensed software; Boot disk; system restore and backup</p> |
| | Select and run suitable tests to make sure that the system and communication service are working successfully | |
| | Explain the range of help and troubleshooting facilities available to solve problems | |
| | Establish procedures for recovery in the event of system faults or failure | |

Specialist Software (A/502/4400)

| Level 3 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Input and combine information using specialist software | Select and use appropriate techniques to link and combine information within the application and across different software applications | <p>Inputting information: Inputting tools and techniques will vary according to the technology being used: for example, interface devices (eg keyboard, mouse, stylus, touch screen), microphone (eg headset, built-in), camera (eg web cam, video camera, mobile phone camera); shortcuts, customise keys</p> <p>File types and software: Text (eg rtf, doc, pdf), images (eg jpeg, tiff, psd), charts and graphs (eg xls), sound (eg wav, MP3)</p> <p>Combining information techniques: Insert, size, position, wrap, order, group; import data, links and references to external data, version control; export data</p> |
| | Input relevant information accurately so that it is ready for processing | |
| Create and modify appropriate structures to organise and retrieve information efficiently | Evaluate the use of software functions to structure, layout and style information | <p>Structures, layouts and conventions: Apply and change existing templates, set up templates for common information, apply or change existing styles, set up styles for information</p> <p>Manage data files: File storage, data import and export, restore lost data; identify ineffective backup storage</p> <p>Guidelines for the storage and use of data: Set by employer or organisation. Policies relating to security, backup and data protection; guidelines for data format; compliance, audit and reporting requirements File management will vary according to the application.</p> |
| | Create, change and use appropriate structures and/or layouts to organise information efficiently | |
| | Manage data files effectively, in line with local and/or legal guidelines and conventions for the storage and use of data where available | |
| Exploit the functions of the software effectively to process and present information | Select and use appropriate tools and techniques to edit, analyse and format information | <p>Editing, analysis and formatting techniques: Techniques will vary according to the software and task, for example:</p> <p>Editing – select, insert, delete, cut, copy, paste, drag and drop, find, replace, page layout, labelling, alignment, orientation, colour, resolution, size, pitch</p> <p>Analysis – design queries, mathematical, logical or statistical functions</p> <p>Formatting – characters, lines, paragraphs, pages, file type</p> |
| | Check information meets needs, using IT tools and making corrections as necessary | |
| | Identify and respond appropriately to quality problems to ensure that outcomes are fit for purpose and meet needs | |
| | Select and use presentation methods to aid clarity and meaning | |

| Level 3 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | | <p>Check information: Checks will vary according to the type of information and software, but could include: spell check, grammar check, accuracy of figures, labelling and size of images, volume of sound, quality of images and sound, that line, paragraph and page breaks fall appropriately, formatting is consistent, the use of headings and subheadings aid clarity, the placing of images or sound clips</p> <p>Quality problems with outcomes: Will vary according to the content, for example, text (eg formatting, structure), images (eg size, position, orientation), numbers (eg decimal points, accuracy of calculations), sound (eg volume, sound clip out of sync)</p> <p>Presentation methods: Methods will vary according to the software and task, for example, on screen display, publishing on a web site, hard copy print out, digital file; organisational house style, branding</p> |

Spreadsheet Software (J/502/4626)

| Level 3 | | |
|---|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Use a spreadsheet to enter, edit and organise numerical and other data | Identify what numerical and other information is needed in the spreadsheet and how it should be constructed | <p>Numerical and other data: Numbers, charts, graphs, text, images, linked and embedded objects, references, lists</p> <p>Spreadsheet structure: Spreadsheet components (eg cells, rows, columns, tabs, pages, charts, ranges, workbooks, worksheets), structure, design and layout; spreadsheet templates</p> <p>Enter and edit: Insert data into single and multiple cells , clear cells, edit cell contents, replicate data, find and replace, add and delete rows and columns, use absolute and relative cell references, add data and text to a chart, hide and protect cells, create, modify and merge multiple copies of a shared workbook; data validation; shortcuts; data entry forms, lists</p> <p>Combine and link data: Across worksheets and files; consolidate data; shared or collaborative workspaces</p> <p>Store and retrieve: Save, save as, find, open, close, open CSV file in spreadsheet application, save spreadsheet file as CSV; templates; selective data import and export; file properties; password protection</p> |
| | Enter and edit numerical and other data accurately | |
| | Combine and link data from different sources | |
| | Store and retrieve spreadsheet files effectively in line with local guidelines and conventions where available | |
| Select and use appropriate formulas and data analysis tools and techniques to meet requirements | Explain what methods can be used to summarise, analyse and interpret spreadsheet data and when to use them | <p>Analysis and interpretation methods: Totals, sub-totals and summary data, automatic sub-totals, group and outline; sorting and display order; lists, tables, graphs and charts; filter rows and columns; forms, data restrictions, data validation, adding messages to data, using formulae to determine valid entries for cells; displaying by interest; pivot tables and charts; Judgment of when and how to use these methods</p> <p>Functions and formulas: Design of formulas to meet calculation requirements</p> <p>Mathematical, statistical, financial, logical, look-up, arguments, arrays and formulas for validating data</p> <p>Forecasting tools: What-if scenarios, goal seek; data tables; views</p> |
| | Select and use a wide range of appropriate functions and formulas to meet calculation requirements | |
| | Select and use a range of tools and techniques to analyse and interpret data to meet requirements | |
| | Select and use forecasting tools and techniques | |

| Level 3 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Use tools and techniques to present, and format and publish spreadsheet information | Explain how to present and format spreadsheet information effectively to meet needs | Format cells: Numbers, currency, percentages, number of decimal places, font and alignment, borders and shading; date and time; custom formats; conditional formatting; styles, cell protection; workbook protection |
| | Select and use appropriate tools and techniques to format spreadsheet cells, rows, columns and worksheets effectively | Format rows and columns: Height, width, borders and shading, hide, freeze |
| | Select and use appropriate tools and techniques to generate, develop and format charts and graphs | Format charts and graphs: Chart type (including custom types, 2 graphs types on 1 axis); title, axis titles, legend, change chart type, move and resize chart, axis scale, annotation, layout, pivot table reports |
| | Select and use appropriate page layout to present, print and publish spreadsheet information | Page layout: Size, portrait, landscape, margins, header and footer, page breaks, page numbering, date and time, adjust page set up for printing; selective printing or publishing of spreadsheet information |
| | Explain how to find and sort out any errors in formulas | Check spreadsheet information: Accuracy of numbers, formulas and any text; suitability of charts and graphs; reveal formulae; layout and formatting, validity, relevance and accuracy of analysis, interpretation of calculations and results; clarity of overall spreadsheet; check links |
| | Check spreadsheet information meets needs, using IT tools and making corrections as necessary | Problems with spreadsheets: Using help; sorting out errors in formulas, calculations and results; data validation, locate invalid data |
| | Use auditing tools to identify and respond appropriately to any problems with spreadsheets | |

Using Collaborative Technologies (T/502/4380)

| Level 3 | | |
|--|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Stay safe and secure when with collaborative technology | Explain what and why guidelines need to be established for working with collaborative technology | <p>Guidelines for using collaborative technology: Guidelines set by your organisation or community of interest; about uses, security, safety, copyright, plagiarism, libel, confidentiality and data protection; ways to communicate and promote guidelines about online security, confidentiality and data protection</p> <p>Methods to promote trust: Contact information, membership of professional bodies, recommendations, links, policies, standards</p> <p>Checks on others' identities: Compare sources, cross references</p> <p>Risks when working with collaborative technologies: Inappropriate disclosure of personal information, misuse of images, appropriate language, respect confidentiality, copy lists, what to do in a power cut, about data loss; risk analysis, risk monitoring, contingency planning, updating risk management policy</p> |
| | Develop and implement guidelines for good practice in working with collaborative technology | |
| | Explain how to establish an identity or present information that will promote trust | |
| | Develop and implement guidelines for checking the authenticity of identities and different types of information | |
| | Analyse and plan for the risks in the use of collaborative technologies for different tasks | |
| | Analyse and manage risks in the use of collaborative technologies | |
| Plan and set up IT tools and devices for collaborative working | Explain the features, benefits and limitations of different collaborative IT tools and devices for work purposes and tasks | <p>Connect and configure collaborative technologies: Connect to another site, check whether both sites are connected, connect to multiple sites, check when multiple sites are connected, adjust clarity; IP address, adjust set-up options, the Open Systems Interconnection (OSI) model, facilities for sharing files and applications across multiple sites</p> <p>Purposes for collaborative working: Will vary according to the task, but may include: sharing, displaying and recording information, discussing and reflecting, establishing identity, joining interest groups, developing ideas, contributing to research, carrying out research, exporting information to other formats, establishing communities of interest, managing identities, managing data</p> |
| | Determine the IT tools and processes needed for archiving the outcomes of collaborative working | |
| | Summarise ways to integrate different collaborative technology tools and devices for a range of purposes, tasks and communication media | |
| | Explain potential access and compatibility issues with integrating different collaborative technology tools and devices | |

| Level 3 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | <p>Select, connect and configure combinations that exploit the capabilities and potential of collaborative tools and devices</p> <p>Resolve access and compatibility problems so that different collaborative tools and devices work successfully</p> | <p>Outcomes of collaborative working: Measurable (eg document, minutes, notes, project plan, transcript); ephemeral (g conversation, agreement); whether an audit trail is needed</p> <p>Collaborative technology tools and devices: Hardware: mobile, laptop, desktop, peripherals (eg headset, handset, microphone, camera, 3G modem); Software: products, services, sites</p> <p>Communication media: Text, audio/spoken, still/video/animated images</p> <p>Compatibility issues: Between browser software, operating systems, plug-ins</p> |
| Prepare collaborative technologies for use | <p>Evaluate data management principles, issues and methods</p> <p>Manage levels of access and permissions for different purposes</p> <p>Select and integrate different elements across applications to create environments for collaborative technologies</p> <p>Set and adjust settings to facilitate use of collaborative technologies by others</p> <p>Manage data flow to benefit collaborative working</p> | <p>Access to collaborative technologies: Download software, agree terms and conditions, register or set up an ID; accessibility issues, adjusting access settings; accessibility standards</p> <p>Permissions: Web address, phone number, user name and password, set up user names and access codes</p> <p>Environments for collaborative technologies: User interface – choose skins, templates, widgets, wizards, cut and paste from other sources; work environment – lighting, position of devices</p> <p>Adjust settings: Hardware – colour, type size, window size, volume; Browser – cookies, pop-ups; Security settings – firewall</p> <p>Managing data: Sources, subscription details, terms and conditions; aims of data management; benefits, features and limitations of networks and feeds; what constraints need to be overcome, what level of restrictions to apply</p> |
| Manage tasks using collaborative technologies | <p>Determine levels of responsibility for the use of collaborative technologies</p> <p>Facilitate others' responsible contributions to and engagement with collaborative technologies</p> <p>Manage the moderation of collaborative technologies</p> | <p>Contributing responsibly: follow the rules of 'netiquette', respect others contributions, avoid dominating and not responding; legal and cultural issues; user rules, moderations policies, ethical issues</p> <p>Moderating collaborative technologies: Reporting inappropriate content; checking posts</p> <p>Archiving outcomes: Cut, paste, save; record, transcribe</p> |

| Level 3 | | |
|---|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | <p>Oversee the archiving of the outcomes of collaborative working</p> <p>Explain what problems can occur with collaborative technologies</p> | <p>Problems with collaborative technologies: routine (eg settings, software not responding, hardware connections); non-routine (eg access, transmission speed, bandwidth); complex (eg compatibility)</p> |

Using Email (T/502/4301)

| Level 3 | | |
|---|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| <p>Use email software tools and techniques to compose and send messages</p> | <p>Respond to problems with collaborative technologies and be prepared to help others to do so</p> | <p>Compose and format e-mail: Format text (font, size, colour); format paragraphs (alignment, bullets, numbered list), spell check, priority; format (rtf, plain text, html), draft, signature, page set up, backgrounds, sound, movie, hyperlink, work on- and offline</p> <p>Message transmission: Managing attachments; mailbox restrictions; methods to reduce size or improve transmission; Transmission limitations</p> <p>Send e-mail: To, from, cc, bcc, subject; Reply, reply all, forward, distribution list, reply with history; options, set message flags for priority, confidentiality, response request, vote, encoding, schedules, encryption, compression</p> <p>Address book: Add, edit, delete contact entries; contacts list, distribution list, sort, display selected fields, import and export contact information, merge lists, synchronise</p> <p>Stay safe: Avoid inappropriate disclosure of personal information, avoid misuse of images, use appropriate language, respect confidentiality, use copy lists with discrimination; using encryption</p> |
| | <p>Select and use software tools to compose and format email messages, including attachments</p> | |
| | <p>Explain methods to improve message transmission</p> | |
| | <p>Send email messages to individuals and groups</p> | |
| | <p>Explain why and how to stay safe and respect others when using email</p> | |
| <p>Manage use of email software effectively</p> | <p>Use an address book to manage contact information</p> | <p>Guidelines and procedures: Set by employer or organisation, Health and safety, security, copyright ; netiquette; password protection</p> <p>E-mail responses: Decide on priorities, gather information needed to respond, decide when and who to copy in, what to do about attachments; reduce unwanted e-mail, manage time</p> <p>Automate responses: Rules, automatic replies, changing settings to deal with junk mail; out of office, scheduling; templates</p> <p>Organise and store e-mail: Folders, subfolders, delete unwanted messages, backup, address lists, move after sending,</p> |
| | <p>Develop and communicate guidelines and procedures for using email effectively</p> | |
| | <p>Read and respond appropriately to email messages and attachments</p> | |
| | <p>Use email software tools and techniques to automate responses</p> | |
| | <p>Explain why, how and when to archive messages</p> | |
| | <p>Organise, store and archive email messages effectively</p> | |

| Level 3 | | |
|---|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | Customise email software to make it easier to use | rules, archive folders; attachments, file compression, public folders |
| | Explain how to minimise email problems | Email problems: Due to message size or number of attachments, messages from unknown users (SPAM, junk, chain-mails, 'phishing'), viruses, messages intended to cause problems; mailbox full, identifying when problems are local or linked to the service provided by ISP |
| | Respond appropriately to email problems | |

Using the Internet (F/502/4298)

| Level 3 | | |
|---|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Select and set up an appropriate connection to access the Internet | Identify different types of connection methods that can be used to access the Internet | <p>Connection methods: LAN, VPN, modem, router, wireless, broadband, dial-up, cable, DSL; mobile phone with wireless application protocol (WAP) or 3rd Generation (3G) technology; intranet server (eg via parallel, serial or USB connections); extranet</p> <p>Benefits and drawbacks of connection methods: Speed, stability, accessibility, frequency of connection problems, additional services offered by ISP, cost, security</p> <p>Users: New users, learners, those with restricted access, those with disabilities</p> <p>Set up an Internet connection: Identifying and selecting ISP, connecting hardware, installing and configuring software, setting up and testing operation of connection; limiting access</p> |
| | Explain the benefits and drawbacks of different connection methods | |
| | Analyse the issues affecting different groups of users | |
| | Select and set up an Internet connection using an appropriate combination of hardware and software | |
| | Recommend a connection method for Internet access to meet identified needs | |
| | Diagnose and solve Internet connection problems | |
| Set up and use browser software to navigate web-pages | Select and use browser tools to navigate web-pages effectively | <p>Browser tools: Enter, back, forward, refresh, history, bookmark, new window, new tab, Toolbar, search bar, address bar; home, go to, follow link, URL; save web address, save as, downloads, temporary files</p> <p>Browser settings: Security, pop-ups, appearance, privacy, personalisation, accessibility, software updates, temporary file storage, browser options, add-ons, RSS feeds, connections, search settings, content</p> <p>Browser performance: Delete cache, delete temporary files, work offline, save websites, benchmark tests</p> |
| | Explain when to change browser settings to aid navigation | |
| | Adjust and monitor browser settings to maintain and improve performance | |
| | Explain when and how to improve browser performance | |
| | Customise browser software to make it easier to use | |
| Use browser tools to search effectively and efficiently for information from the Internet | Select and use appropriate search techniques to locate information efficiently | <p>Search techniques: Search key words, quotation marks, search within results, relational operators, 'find' or search tools; search engine features, multiple search criteria, Boolean operators, wild cards</p> <p>Information requirements: Reliability, accuracy, currency, sufficiency, relevance, level of detail; Recognise intention and</p> |
| | Evaluate how well information meets requirements | |
| | Manage and use references to make it easier to find information another time | |

| Level 3 | | |
|--|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | Download, organise and store different types of information from the Internet | <p>authority of provider, bias, ;synthesise information from a variety of sources; verify information</p> <p>References: History, favourites, manage bookmarks and links, RSS, data feeds, saved search results;</p> <p>Download information: Webpage, website; images, text, numbers, sound, games, video, TV, music; software, patches</p> |
| Use browser software to communicate information online | <p>Identify and analyse opportunities to create, post or publish material to websites</p> <p>Select and use appropriate tools and techniques to communicate information online</p> <p>Share and submit information online using appropriate language and moderate content from others</p> | <p>Communicate information: Saved information (pod-casts, text, images), real time information (blogs, instant messaging; virtual meetings), file transfer protocol [FTP], hypertext transmission protocol [http], VOIP</p> <p>Share information sources: Send link, send webpage reference lists, data feeds,</p> <p>Submit information: Fill-in and submit web forms; ratings, reviews, recommendations; wikis; discussion forums; interactive sites; netiquette</p> |
| Develop and apply appropriate safety and security practices and procedures when working online | <p>Explain the threats to system performance when working online</p> <p>Work responsibly and take appropriate safety and security precautions when working online</p> <p>Explain the threats to information security and integrity when working online</p> <p>Keep information secure and manage user access to online sources securely</p> <p>Explain the threats to user safety when working online</p> <p>Explain how to minimise internet security risks</p> | <p>Threats to system performance: Unwanted e-mail (often referred to as “spam”), malicious programs (including viruses, worms, trojans, spyware, adware and rogue diallers) and hackers; hoaxes</p> <p>Safety precautions: Firewall settings, Internet security settings; report inappropriate behaviour; report security threats or breaches; netiquette, content filtering, avoid inappropriate disclosure of information, carry out security checks, proxy servers</p> <p>Information security: Username and password/PIN selection and management, password strength, online identity/profile; Real name, pseudonym, avatar; What personal information to include, who can see the information, withhold personal information</p> |

| Level 3 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | Develop and promote laws, guidelines and procedures for safe and secure use of the Internet | <p>Threats to information security: Malicious programs (including viruses, worms, trojans, spyware, adware and rogue diallers), hackers, phishing and identity theft</p> <p>Threats to user safety: Abusive behaviour (“cyber bullying”), inappropriate behaviour and grooming; abuse of young people; false identities; financial deception, identity theft</p> <p>Minimise risk: Virus-checking software, anti-spam software, firewall; treat messages, files, software and attachments from unknown sources with caution, internet settings, block sites, parental controls</p> <p>Laws, guidelines and procedures: Set by employer or organisation relating to Health and safety, security; equal opportunities, disability; Laws: relating to copyright, software download and licensing, digital rights, IPR, health and safety</p> |

Understanding the Potential of IT (D/503/0500)

| Level 3 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Understand how IT is transforming business and industry | Explain the potential of IT to transform data management and business processes | <p>Processes: saves printing, initial equipment cost, better customer service, computerised purchasing and sales, project management, automated routines, templates, manual processes supporting IT, more efficient and effective ways of doing things, learning new techniques; ways to improve others’ or organisational efficiency, save time, save money, streamline work processes, cost saving, IT training, better informed, information overload, job satisfaction, redundancy, redeployment, Health and Safety risks increase output, improve quality of outputs</p> <p>Environmental: energy conservation, waste, recycling, refurbishing, manufacturing process, European Union’s Waste Electrical Electronic Equipment (WEEE) Directive</p> |
| | Explain how environmental issues can affect the use of IT in business and industry | |
| | Evaluate how social and collaborative technologies are transforming business and industry | |

| Level 3 | | |
|--|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | | <p>Communications: email, sharing calendars, sharing files, intranet, netmeeting, bulletin boards, video training, e-newsletters; social media tools: forums, blogs, chat, social networks, websites, phone systems</p> |
| <p>Understand the impact of the internet and mobile communications on society and the individual</p> | <p>Explain how technology is transforming personal and social communication and interaction</p> | <p>Communications: email, sharing calendars, sharing files, intranet, netmeeting, bulletin boards, video training, e-newsletters; social media tools: forums, blogs, chat, social networks, websites, phone systems, cost, access, worldwide, mobile devices and applications, collaborative technology, cameras, internet, news, wireless, security, knowledge</p> <p>Barriers: cost, safety, lack of training/knowledge, awareness</p> <p>Increase accessibility: ease of use, access, desirability, trust</p> |
| | <p>Describe the main barriers to take-up or adoption of digital technologies by individuals and groups</p> | |
| | <p>Describe measures to increase accessibility to digital information</p> | |
| <p>Understand how IT is used in an organisation</p> | <p>Describe the movement and transfer of information in key technology-enabled business processes using appropriate IT tools to illustrate the information flow</p> | <p>Hardware: personal computer, monitor, keyboard, mouse, speakers, modem, scanner, games console, joystick, TV, data projector, whiteboard, printer</p> <p>Software: operating, applications, bespoke</p> <p>Communications: Router, modem, mobile data device, wireless router, cables, power supply, USB, parallel, serial connections. Broadband, dial up, wireless, network connections, mobile device, ISP, IP configuration, encryption, personal information, speed of transfer</p> |
| | <p>Explain the principles of interaction between key components of the IT system (hardware, software and communications)</p> | |
| | <p>Review how the use of bespoke and/or specialist systems contribute to organisational success</p> | |
| <p>Understand the effect of introducing new IT tools and systems in an organisation</p> | <p>Evaluate key factors influencing the successful introduction of new IT tools and systems</p> | <p>Approaches: Systems analysis, requirements analysis, parallel systems, live test, training, phases, developing existing technology, prototype, users involved in development, trial periods, run user tests, compare with other IT tools and techniques, find ways to optimise the choice and approach, test plans, test data, comparison of before and after the solutions have been implemented</p> <p>Benefits: cost savings, more efficient and effective ways of doing things, learning new techniques; ways to improve others' or organisational efficiency, safer, more competitive</p> <p>Risks: costs, faults in system/tools, lack of knowledge, employee rejection, customer rejection</p> |

| Level 3 | | |
|---|--|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | | |
| Understand the methods used to enhance IT security in an organisation | <p>Evaluate the main risks to IT security</p> <p>Evaluate the control measures in place to maximise personal and data protection</p> <p>Explain how organisations are using innovative systems and software to help improve cyber security</p> | <p>Risks: Inappropriate disclosure of personal information, misuse of images, data loss, unwanted or inappropriate content or access, Cyberbullying, tasteless or unsuitable personal comments, offensive or illegal content, inappropriate behaviour, posting inappropriate content. Worms, viruses, denial of service, hacking of systems, Trojans, spam, theft of data, hacking, accidental deletion or change to data, phishing, identify theft</p> <p>Control measures: Spyware, reporting inappropriate content; checking posts, monitoring audio/visual discussions. Set passwords, physical access controls i.e. keypads or locks, anti-virus software, adjust firewall settings, carry out security checks, report security threats and breaches, back up data and software and store appropriately, download and install software patches and updates, treat messages, files, software and data from unknown sources with caution, proxy servers</p> <p>Organisation: about uses, security, safety, copyright, plagiarism, libel, back-ups, confidentiality and data protection, using collaborative technology; careful disposal of information items, behaviour; legal and regulatory requirements relating to behaviour and content e.g. Equality Act 2008; Computer Misuse Act 1998; Copyright law</p> |

Website Software (Y/502/4632)

| Level 3 | | |
|--|--|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| <p>Create structures and styles and use them to produce websites</p> | <p>Determine what website content and layout will be needed for each page and for the site</p> | <p>Content and layout: Web page content and layout will vary according to the template, but may include: text (eg body text, headings, captions), images (eg still photographs, diagrams), numbers (eg tables, charts or graphs), background (eg colours, gradients, patterns, textures), structure (eg frames, side bars), moving images (eg animation, video clips), sound (eg clips linked to navigation, background music, video sound track), interactive components (eg message boards, forms, e-mail links, registration log-ins), down loads (eg pdf files, pod casts)</p> <p>Constraints affecting websites: Effect of copyright law (eg on music downloads or use of other people’s images), acknowledgment of sources, avoiding plagiarism, provisions of the Data Protection Act; accessibility standards, IPR</p> <p>Website features: Web page features will vary, but may include: navigation (eg action buttons, links, hot spots, menus, hyperlinks, pop-ups), multimedia (eg animation, sound linked to actions, video clips, sound track), interactive (eg message boards, forms, downloads, pod casts, e-mail links, registration log-ins); e-commerce facilities</p> <p>Website access issues: The difficulties different users may have in accessing websites, accessibility guidelines, affect of download speeds (eg from different browser software, connection type, size of web page contents), ways to increase accessibility, ways to improve download speeds, ways to improve search engine results</p> <p>Web page templates: Web page content and layout will vary according to the template, but may include: text (eg body text, headings, captions), images (eg still photographs, diagrams), numbers (eg tables, charts or graphs), background (eg colours, gradients, patterns, textures), structure (eg frames, side bars), moving images (eg animation, video clips), sound (eg clips linked to navigation, background music, video sound track), interactive components (eg message boards, database fields, forms, e-mail links, registration log-ins), downloads (eg pdf files, podcasts)</p> |
| | <p>Plan and create web page templates to layout content</p> | |
| | <p>Select and use website features and structures to enhance website navigation and functionality</p> | |
| | <p>Create, select and use styles to enhance website consistency and readability</p> | |
| | <p>Provide guidance on laws, guidelines and constraints that affect the content and use of websites</p> | |
| | <p>Explain what access issues may need to be taken into account</p> | |
| | <p>Explain when and why to use different file types for saving content</p> | |
| | <p>Store and retrieve files effectively, in line with local guidelines and conventions where available</p> | |

| Level 3 | | |
|--|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | | <p>Web page styles: Styles will vary according to the different elements of the website design, but may include: typeface (eg font, colour, size and alignment of headings, captions or body text), lines (eg type, thickness and colour of borders, tables, diagrams), structure (eg size of frames, number of tabs, format of menu), cascading style sheets</p> <p>File types: Text (eg rtf, doc, pdf), images (eg jpeg, tiff, psd), charts and graphs (eg xls), sound (eg wav, MP3)</p> <p>Store and retrieve: Files (eg create, name, open, save, save as, print, close, find, share); version control; import/export; file size; folders (eg create, name)</p> |
| <p>Select and use website software tools and features to develop multiple page websites with multimedia and interactive features</p> | <p>Prepare content for web pages so that it is ready for editing and formatting</p> <p>Organise and combine information needed for web pages in line with any copyright constraints, including across different software</p> <p>Select and use appropriate editing and formatting techniques to aid meaning</p> <p>Select and use appropriate programming and development techniques to add features and enhance websites</p> <p>Select and use file formats that make information easier to download</p> <p>Check web pages meet needs, using IT tools and making corrections as necessary</p> | <p>Combine information: Combine images with sound (eg dub or overlay sound track onto film sequence; integrate a audio or video sequence with another application):Techniques: Copy and paste, insert, screen grabs/shots, File download (eg connect USB lead, drag and drop), file transfer protocol (FTP). Forms of information: moving images, sound; pre-recorded, live, web-streaming</p> <p>Editing techniques: Editing techniques will vary in line with the type of information, for example: select, copy, cut, paste, undo, redo, drag and drop, find, replace, size, crop, position, change templates</p> <p>Programming and development techniques: Creating links to bookmark text within a page, linking web pages together, adding a link to another website, altering simple code using programming language, creating code using an appropriate programming language, adding multimedia content to web pages, setting up a secure area, message board or e-mail link, adding meta tags</p> <p>File formats: Change format of documents to RTF or HTML</p> <p>Check web pages: Using help; Will vary depending on the content but may include, for example:</p> <p>Text: Spell check; grammar check, type face and size, hyphenation Layout: Page layout, margins, line and page breaks, tables, sections</p> |

| Level 3 | | |
|--|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | | Images: Size, alignment and orientation, suitability of file format, appropriate choice of colour mode and use of filters, fitness for purpose of image resolution |
| Publish and test multiple page websites with multimedia and interactive features | <p>Select and use appropriate testing methods to check that all elements and features of complex websites are working as planned</p> <p>Identify any quality problems with websites and explain how to respond to them</p> <p>Select and use an appropriate programme to upload and publish the website and make sure that it will download efficiently</p> <p>Respond appropriately to quality problems with websites to ensure outcomes are fit for purpose</p> | <p>Testing methods: Methods will vary but may include: viewing web pages using browser software, testing navigation round pages within multiple page website, testing external links, testing multi-media and interactive elements</p> <p>Quality problems with websites: Problems may vary, but could include: content that is not appropriate for the template or missing, text that is not readable or missing, images that are oriented or sized wrongly, navigation that does not work as planned; multimedia features (eg sound levels, image resolution, synchronisation of sound and images), interactive features (eg response to posting a message or when key fields on forms are not completed, downloads not active)</p> <p>Upload and publish website: Upload content to a template, use file exchange programme to upload and publish (eg FTP or HTTP), improve loading speed of a website, submit to search engines</p> |

Word Processing Software (Y/502/4629)

| Level 3 | | |
|---|---|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Enter and combine text and other information accurately within word processing documents | Summarise what types of information are needed for the document and how they should be linked or integrated | <p>Types of information: Text, numbers, images, other graphic elements (eg lines, borders), hyperlinks, charts, objects</p> <p>Templates: Use existing templates; create, amend and delete templates</p> <p>Combine information: Insert, size, position, wrap, order, group, link information in a document to another source; mail merge documents and labels; hyperlinks, link information from one type of software to information produced using different software; merge fields</p> <p>Store and retrieve: File properties; protection; versions, storage and backup locations; file formats; open rtf file in application, save file as text, rtf or html, password protection; methods to reduce file size. Templates, stylesheets</p> <p>Work with multiple documents or users: Version control, audit and track changes, compare and merge documents; document sharing and collaboration</p> <p>Customise interface: Shortcuts, toolbars, menus; default settings; start-up, language</p> |
| | Use appropriate techniques to enter text and other types of information accurately and efficiently | |
| | Create, use and modify appropriate templates for different types of document | |
| | Explain how to combine and merge information from other software or multiple documents | |
| | Combine and merge information within a document from a range of sources | |
| | Store and retrieve document and associated files effectively, in line with local guidelines and conventions where available | |
| | Select and use tools and techniques to work with multiple documents or users | |
| | Customise interface to meet needs | |
| Create and modify appropriate layouts, structure and styles for word processing documents | Analyse and explain the requirements for structure and style | <p>Requirements for structure and style: Document layout, house style, branding</p> <p>Tables and forms: Insert and delete cells, rows and columns, adjust row height and column width; Add table, complete forms and tables, convert text to table; create and amend forms; merge and split cells, horizontal and vertical text alignment, cell margin,</p> |
| | Create, use and modify columns, tables and forms to organise information | |
| | Define and modify styles for document elements | |

| Level 3 | | |
|--|--|---|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| | Select and use tools and techniques to organise and structure long documents | <p>add borders and shading, sort, position, headings, totals; heading rows; embedded spreadsheet data</p> <p>Format columns: Modify column number and width, add column breaks, add columns to whole document and part of a page</p> <p>Styles: Heading styles; Apply or change existing styles to a word, line, paragraph or section; define, organise and use new styles</p> <p>Page layout: Paper size and type, change page orientation, margins, header and footer, page and section breaks, page numbering, date and time, columns, adjust page set up for printing or web publishing, facing pages, booklets</p> <p>Document structure: Page breaks, columns, sections, Bookmarks, cross referencing using indexes and contents page, outlines, master and sub-documents</p> |
| Use word processing software tools and techniques to format and present documents effectively to meet requirements | <p>Explain how the information should be formatted to aid meaning</p> <p>Select and use appropriate page and section layouts to present and print multi- page and multi-section documents</p> <p>Check documents meet needs, using IT tools and making corrections as necessary</p> <p>Select and use appropriate techniques to format characters and paragraphs</p> <p>Evaluate the quality of the documents produced to ensure they are fit for purpose</p> <p>Respond appropriately to any quality problems with documents to ensure that outcomes meet needs and are fit for purpose</p> | <p>Format characters: Size, font style (typeface), colour, bold, underline, italic, superscript, subscript, special characters and symbols, spacing, position</p> <p>Format paragraphs: Alignment, bullets, numbering, line spacing, paragraph spacing, borders, shading, indents, tabs, widows and orphans, outline, sub-numbering, style sheet; custom styles; graphics; objects, text wrap</p> <p>Automate routines: Keyboard shortcuts; autotext; customise menus; macros</p> <p>Check word processed documents: Spell check, grammar check, typeface and size, hyphenation, page layout, margins, line and page breaks, tables, print preview, accuracy, consistency, clarity; language and dictionary settings; cross referencing</p> <p>Quality problems with documents: Will vary according to the content, for example, text (eg styles, structure, layout), images (eg size, position, orientation), numbers (eg decimal points, results of any calculations); links, cross references, versions</p> |

Developing Personal and Team Effectiveness Using IT (H/503/0501)

| Level 3 | | |
|--|---|--|
| Learning outcomes The learner will.... | Assessment Criteria The learner can... | Examples |
| Understand how IT can support personal development | Describe how IT tools and resources can support own learning and development | IT Tools: communications, email, sharing calendars, sharing files, intranet, netmeeting, bulletin boards, on line help, tutorials, enewsletters, video training; social media tools: forums, blogs, chat, social networks, websites, worldwide, mobile devices and applications, collaborative technology, cameras, internet, news, wireless, virtual learning environments, media rich content, simulation |
| | Explain how IT tools and systems can be used to support personal performance improvement | |
| Use IT to support personal development | Implement IT tools and systems to support personal performance and time management | Action Plan: dates, targets, goals, progress, strengths, weaknesses, training requirements |
| | Develop and implement an action plan to use IT to improve own working practice | |
| Understand how IT can support the development of team effectiveness | Describe the roles and responsibilities of team members | Roles: helpdesk operator, systems analyst, website designer, systems administrator, programmer, network technician, IT trainer |
| | Explain how IT tools and systems can be used to enhance effective team communications and collaboration | |
| | Compare ways that IT can be used to overcome obstacles to effective teamwork | |
| Work as a member of a team to achieve defined goals and implement agreed plans | Assess contribution of own use of IT to team activities | Feedback: positive, negative, constructive, instructional, supportive, oral, written, group, individual Systems: hardware, software |
| | Provide feedback to others on their use of IT in a constructive and considerate manner | |
| | Review feedback from others on own performance and adapt behaviour where appropriate | |
| | Assist others to use new IT tools and systems | |

4. Assessment

4.1 Assessment Centre Requirements

To be able to offer these qualifications an organisation must be a BCS Approved Centre. Details of what is required to be a centre can be found on our [website](#).

4.2 Assessing Learner Work

These qualifications are assessed in a variety of ways, based on the appropriate method for the required assessment criteria. There are 3 forms of assessment:

Automated Testing

The tests cover all ICDL units where a learner will take the test on a computer at an Approved Centre, this offers instant results to the learner.

The tests vary in length and time allowance dependant on unit taken.

BCS is responsible for Quality Assuring the tests.

Manual Tests

Manual tests are written assessments marked by the Centre. The tests are written and managed by BCS and are stored on the Approved Centre Forum, a secure web site for approved centres. To ensure consistency, all manual tests are subject to remote moderation, where BCS sample and re-mark approximately 10% of tests taken.

The ICDL Advanced qualification has the option for paper based written assessments and all papers are marked by external consultants. All results that are +/- 5% of the test threshold will be verified by a separate external consultant.

Evidence Based (Portfolio Assessment)

Evidence based assessment is where learners' achievements are used to prove they meet the criteria set out in each IT User unit.

Valid evidence can arise from:

- activities undertaken for or at work;
- the search for employment (e.g. CVs, job applications and emails to potential employers);
- social activities (e.g. club membership databases, posters and websites), such as:
 - enterprise activities (e.g. business plans, budgets and marketing materials);
 - voluntary activities (e.g. cash flows, programmes and newsletters); or
 - learning and studying subjects other than IT (e.g. internet research for a geography assignment, reports/dissertations and presentations).

Portfolio evidence should arise naturally from tasks and activities involving the use of IT and may include:

- product outcomes – in the form of outputs or screenshots produced using IT – which should form the majority of evidence; and
- ephemeral evidence – where this is the only evidence for an element (for example, of planning), should be cross checked by professional discussion and backed up by brief written evidence – for example in the form of annotations, storyboards or 'witness statement'.

Grading

The pass mark is 75% (pass or fail only) for all units with the exception of Improving Productivity Using IT (IPU) which is explained below.

The IPU unit is broken down into 2 sections:

- Knowledge
- Performance

Learners should use skills gained in previous IT User units to complete scenario based assessments which prove their understanding of using IT to improve productivity in a practical work style environment.

To successfully pass the IPU unit, and the full qualification, learners are required to achieve:

- at least 75% in the knowledge section; and
- at least 75% of the tasks within the performance section.

Resits

There are no restrictions on the number of times you can resit the unit, although each resit will require a new registration and payment of the appropriate fee. You can only sit the unit once in a 24-hour period.

5.

5.1 Availability of Assessments

As the assessment of the IT User qualification can be delivered through a number of systems at any time, the centre will require access to the relevant system they have chosen.

5.2 Summary of Assessment Methods

These qualifications are assessed in a variety of ways, based on the appropriate method for the required assessment criteria. The methods available for the units are summarised as follows (key on the following page):

| Unit title | Assessment Type | | |
|---|-----------------|---------|---------|
| | Level 1 | Level 2 | Level 3 |
| Audio Software | E | E | E |
| Bespoke Software | E | E | E |
| Computerised Accounting Software | E | E | E |
| Data Management Software | M, E | M, E | E |
| Database Software | M, A | M, A | M, A |
| Design Software | E | E | E |
| Desktop Publishing Software | E | E | E |
| Developing Personal and Team Effectiveness Using IT | N/A | E | E |
| Drawing & Planning Software | E | E | E |
| Imaging Software | E | E | E |
| Improving Productivity using IT | M, E, A | M, A, E | M, E |
| IT Communication Fundamentals | E | E | N/A |
| Internet Safety for IT Users | E | N/A | N/A |
| IT Security for Users | M, A | M, E | E |
| IT Software Fundamentals | E | E | N/A |
| IT User Fundamentals | M, A | E | N/A |
| Multimedia Software | E | E | E |
| Optimise IT System Performance | E | E | E |
| Personal Information Management Software | E | E | N/A |
| Presentation Software | M, A | M, A | M, A |

| Unit title | Assessment Type | | |
|-----------------------------------|-----------------|---------|---------|
| | Level 1 | Level 2 | Level 3 |
| Project Management Software | E | M, A | E |
| Set up an IT System | E | E | E |
| Specialist Software | E | E | E |
| Spreadsheet Software | M, A | M, A | M, A |
| Understanding the Potential of IT | N/A | E | E |
| Using a Computer Keyboard | E | N/A | N/A |
| Using Collaborative Technologies | A | E | E |
| Using email * | M, A | E | E |
| Using Mobile IT Devices | E | E | N/A |
| Using the Internet * | M, A | E | E |
| Video Software | E | E | N/A |
| Website Software | E | E | E |
| Word Processing Software | M, A | M, A | M, A |

*Level 1 Using the Internet and Using email units are only offered as a combined unit with a credit value of 5

Key:

M – Manual Testing A – Automated Testing

E – Evidence Based Testing

N/A – Unit not available at this level

5.3 System requirements

For Automated Tests please refer to the Atlas Cloud System Requirements document which is available on the ACF.

Manual Tests are available for the following Microsoft Office components (where applicable):

- Microsoft Word
- Microsoft Excel
- Microsoft PowerPoint
- Microsoft Access
- Microsoft Project

Please note that test banks have been created for a variety of Microsoft Office versions. However, not all modules are available in all Office versions. Please see the ACF for further information.

In order to ensure total accessibility and protect the integrity of BCS qualifications, manual tests should only be completed in the application version for which they have been created.

6. Recognised Prior Learning/RQF Credit Transfer

If a Learner is registered for a BCS qualification and they already have a prior achievement of one or more of the units for that qualification, the unit(s) can be marked as complete using the RCF Credit Transfer process. A guide containing instructions on how to do this can be found on the ACF.

Please note that qualifications being credited will usually have a three-year time limit that begins from the date of the first unit pass therefore if a unit is credited with a prior achieved result from two years ago, the Learner will now only have one year remaining to complete the qualification.

7. Support

7.1 Specimen Assessment Materials

Sample test papers are available for all units where manual tests are an option. These papers are available upon request, however if you are an approved centre with BCS they can be accessed via the Approved Centre Forum (ACF).

For units, where automated tests are an option, diagnostics tests are available. These provide detailed feedback, with results advising of weaknesses and areas to improve.

7.2 Support Materials

BCS provides the following resources specifically for this qualification:

| Description | How to Access |
|---|---|
| Syllabus (for units where manual tests are available) | Available on the ACF |
| Unit guidance | Available on the ACF (embedded within evidence record sheets) |
| Courseware | Available from approved 3rd party providers (see the ACF) |

7.3 Access to Assessment

BCS will endeavour to provide equal Access to Assessment for all learners, ensuring that there are no unnecessary barriers to assessment and that any reasonable adjustments for learners preserve the validity, reliability and integrity of the qualification.

Requests for reasonable adjustments will be managed by the Centre and considered by BCS to ensure they meet the legal regulatory requirements. Further information about our access to assessment policy can be found on the Approved Centre Forum.

8. Contact Us

BCS is committed to providing you with professional customer service and support. Please see how to contact us by clicking on this link: <https://www.bcs.org/contact-us/>.

If you require this document in accessible format, please contact us.

Appendix: Qualification Level Descriptors

Level 1

Knowledge

The holder

- has basic factual knowledge of a subject and/or knowledge of facts, procedures and ideas to complete well-defined routine tasks and address simple problems;
- is aware of aspects of information relevant to the area of study or work.

Skills

The holder can

- use basic cognitive and practical skills to complete well-defined routine tasks and procedures;
- select and use relevant information;
- identify whether actions have been effective.

Level 2

Knowledge

The holder

- has knowledge and understanding of facts, procedures and ideas in an area of study or field of work to complete well-defined tasks and address straightforward problems;
- can interpret relevant information and ideas;
- is aware of a range of information that is relevant to the area of study or work.

Skills

The holder can

- select and use relevant cognitive and practical skills to complete well-defined, generally routine tasks and address straightforward problems;
- identify, gather and use relevant information to inform actions;
- identify how effective actions have been.

Level 3

Knowledge

The holder

- has factual, procedural and theoretical knowledge and understanding of a subject or field of work to complete tasks and address problems that while well-defined, may be complex and non-routine
- can interpret and evaluate relevant information and ideas
- is aware of the nature of the area of study or work
- is aware of different perspectives or approaches within the area of study or work.

Skills

The holder can

- identify, select and use appropriate cognitive and practical skills, methods and procedures to address problems that while well-defined, may be complex and non-routine
- use appropriate investigation to inform actions
- review how effective methods and actions have been.

Useful Links

If you're interested in delivering our qualifications, further information is available on our website: <https://www.bcs.org/deliver-and-teach-qualifications/become-accredited/>

Approved Centre Forum: <https://tforum.ecdl.co.uk/tforum/>