



# **ECDL Syllabus Version 4.5 (UK Only)**

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## Introduction

This document sets out the syllabus for ECDL Version 4.5. Version 4.5 contains minor updates to certain units of ECDL Version 4.0 in order to align it more closely with the National Occupational Standards (NOS) for IT Users. The updates affect ECDL modules 1, 2 and 7 only and are specific to the UK. All amendments are highlighted in yellow in order that they can be easily identified.

All ECDL units now fully map to their NOS counterparts ensuring that candidates can progress to an ITQ more easily, should they wish to. The ECDL modules map to the following NOS units:

<b>ECDL Unit</b>	<b>NOS Unit</b>
ECDL Unit 1 Use IT Systems (Basic Concepts of IT)	Use IT Systems Level 1
ECDL Unit 2 Using the Computer and Managing Files	Operate a Computer Level 1
ECDL Unit 3 Word Processing	Word Processing Software Level 2
ECDL Unit 4 Spreadsheets	Spreadsheet Software Level 2
ECDL Unit 5 Databases	Database Software Level 2
ECDL Unit 6 Presentations	Presentation Software Level 2
ECDL Unit 7 Information and Communication	Internet and Intranets Level 1 Email Level 1

## Unit 1 – Use IT Systems (Basic Concepts of IT)

Category	Knowledge Area	Ref.	Knowledge Item
<b>US1.1 General Concepts</b>	<i>US1.1.1 Hardware, Software, Information Technology</i>	US1.1.1.1	Understand the terms hardware, software, Information Technology (IT).
	<i>US1.1.2 Types of Computer</i>	US1.1.2.1	Understand and distinguish between mainframe computer, network computer, personal computer, laptop, personal digital assistant (PDA) in terms of capacity, speed, cost, and typical users.
	<i>US1.1.3 Main Parts of a Personal Computer</i>	US1.1.3.1	Know the main parts of a personal computer such as: central processing unit (CPU), hard disk, common input and output devices, types of memory. Understand the term peripheral device.
	<i>US1.1.4 Computer Performance</i>	US1.1.4.1	Know some of the factors that impact on a computer's performance such as: CPU speed, RAM size, and the number of applications running.
<b>US1.2 Hardware</b>	<i>US1.2.1 Central Processing Unit</i>	US1.2.1.1	Understand some of the functions of the CPU in terms of calculations, logic control, and immediate access memory. Know that the speed of the CPU is measured in megahertz (MHz) or gigahertz (GHz).
	<i>US1.2.2 Memory</i>	US1.2.2.1	Understand different types of computer memory such as: RAM (random-access memory), ROM (read-only memory) and distinguish between them.
		US1.2.2.2	Know how computer memory is measured: bit, byte, KB, MB, GB, TB. Relate computer memory measurements to characters, files and directories/folders.
	<i>US1.2.3 Input Devices</i>	US1.2.3.1	Identify some of the main devices for inputting data into a computer such as: mouse, keyboard, trackball, scanner, touchpad, lightpen, joystick, digital camera, and microphone.
	<i>US1.2.4 Output Devices</i>	US1.2.4.1	Identify common output devices for displaying the results of processing carried out by a computer, such as: monitors, screens, printers, plotters, and speakers. Know where these devices are used.
	<i>US1.2.5 Input/Output Devices</i>	US1.2.5.1	Understand some devices are both input/output devices such as: touchscreens.
<i>US1.2.6 Storage Devices</i>	US1.2.6.1	Compare the main types of memory storage devices in terms of speed, cost and capacity such as: diskette, Zip disk, data cartridges, CD-ROM, internal, external hard disk.	
	US1.2.6.2	Understand the purpose of formatting a disk.	

Category	Knowledge Area	Ref.	Knowledge Item
<b>US1.3 Basic System Maintenance</b>	<i>US1.3.1 Typical Components</i>	US1.3.1.1	Understand a simple system set-up and list the basic checks required for starting up a computer such as: power, ensuring cables are connected, monitors and printers are switched on.
	<i>US1.3.2 Operating System</i>	US1.3.2.1	Describe the main functions of the operating system. Understand the basic difference of the BIOS to the operating system.
	<i>US1.3.3 Error Indicators</i>	US1.3.3.1	List some of the common error indicators such as: flashing lights, beeps, lack of display, lack of printer output, lack of mouse cursor and on screen messages.
	<i>US1.3.4 Resolving Problems</i>	US1.3.4.1	Understand some basic steps to take in order to resolve errors such as: checking power supplies, ensuring printers have paper supplies and checking external connections.
		US1.3.4.2	Understand common procedures for report problems/errors. Report problems/errors in an effective way.
		US1.3.4.3	Understand the importance of updating operating systems, software and hardware. Be able to follow verbal/written instructions to find and access update files, service packs and drivers on a network or storage media.
		US1.3.4.4	Understand the importance of backing up and securing data in the context of damage limitation to stored data and the limitations of such systems.
	<b>US1.4 System Interrogation</b>	<i>US1.4.1 System Set-Up</i>	US1.4.1.1
<i>US1.4.2 Managing Active Applications</i>		US1.4.2.1	Know how and when to activate and use basic controls to manage active application software such as checking for and closing non-responsive programs.
<i>US1.4.3 System Properties</i>		US1.4.3.1	Understand and know how to access the properties of a system to find any error indicators associated with the hardware of a computer.
		US1.4.3.2	Understand the icons indicating storage areas available to the computer. Differentiate between hard drive, network and removable media icons. Understand why access to some areas may not be possible and the reasons for this such as: secure drives, password-protected folders, network and hardware errors.

Category	Knowledge Area	Ref.	Knowledge Item
<b>US1.5</b> <b>The Use of IT in Everyday Life</b>	<i>US1.5.1</i> <i>Computers at Work</i>	US1.5.1.1	Identify some situations where a computer might be more appropriate than a person for carrying out a task and where not.
		US1.5.1.2	Know some of the uses of large-scale computer applications in business such as: business administration systems, airline booking systems, insurance claims processing, online banking.
		US1.5.1.3	Know some of the uses of large-scale computer applications in government such as: public records systems (census, vehicle registration), revenue collection, electronic voting.
		US1.5.1.4	Know some of the uses of large-scale computer applications in hospitals/healthcare such as: patient records systems, ambulance control systems, diagnostic tools and instruments, specialist surgical equipment.
		US1.5.1.5	Know some of the uses of computer applications in education such as: student registration and timetabling systems, computer-based training (CBT), distance learning, homework using the Internet.
		US1.5.1.6	Understand the term teleworking. List some of the advantages of teleworking such as: reduced or no commuting time, greater ability to focus on one task, flexible schedules, reduced company space requirements. List some disadvantages of teleworking such as: lack of human contact, less emphasis on teamwork.
	<i>US1.5.2</i> <i>Electronic World</i>	US1.5.2.1	Understand the term electronic mail (e-mail) and know its main uses.
		US1.5.2.2	Understand the term e-Commerce. Understand the concept of purchasing goods and services online, including giving personal details before a transaction can be carried out, payment methods, consumer's basic right to return unsatisfactory goods.
		US1.5.2.3	List some of the advantages of purchasing goods and services online, such as: services available 24 hours a day, opportunity to view a wide range of products. List some of the disadvantages of purchasing goods and services online such as: choosing from a virtual store, no human contact, risk of insecure payment methods.

Category	Knowledge Area	Ref.	Knowledge Item
<b>US1.6 Health and Safety, Environment</b>	<i>US1.6.1 Ergonomics</i>	US1.6.1.1	Understand what elements and practices can help create a good working environment such as: appropriate positioning of monitors, keyboards and adjustable chairs, use of a mouse mat, use of a monitor filter, provision of adequate lighting and ventilation, frequent breaks away from the computer.
		US1.6.1.2	Know where to find information on health and safety laws and guidelines that affect the use of IT.
	<i>US1.6.2 Health Issues</i>	US1.6.2.1	List some common health problems which can be associated with using a computer such as: injuries to wrists caused by prolonged typing, eye strain caused by screen glare, back problems associated with poor seating or bad posture.
		US1.6.3.1	List some safety precautions when using a computer such as: ensuring power cables are safely secured, power points are not overloaded.
	<i>US1.6.3 Precautions</i>	US1.6.4.1	Be aware that recycling printed outputs, recycling printer toner cartridges, using a monitor that consumes less power while the computer is inactive can help the environment.
		US1.6.4.2	Understand that using electronic documents can help reduce the need for printed materials.
<b>US1.7 Security</b>	<i>US1.7.1 Information Security</i>	US1.7.1.1	Understand the term information security and the benefits to an organisation of being proactive in dealing with security risks such as: adopting an information security policy with respect to handling sensitive data, having procedures for reporting security incidents, making staff members aware of their responsibilities with respect to information security.
		US1.7.1.2	Know about privacy issues associated with computers, such as adopting good password policies. Understand what is meant by user ID and differentiate between user ID and password. Understand the term access rights and know why access rights are important.
		US1.7.1.3	Know about the purpose and value of backing up data, software to a removable storage device.
		US1.7.1.4	Be aware of possible implications of theft of a laptop computer, PDA, mobile phone such as: possible misuse of confidential files, loss of files, loss of important contact details if not available on a separate source, possible misuse of telephone numbers.

Category	Knowledge Area	Ref.	Knowledge Item
	<i>US1.7.2 Computer Viruses</i>	US1.7.2.1	Understand the term virus when used in computing and understand that there are different types of virus. Be aware when and how viruses can enter a computer system.
		US1.7.2.2	Know about anti-virus measures and what to do when a virus infects a computer. Be aware of the limitations of anti-virus software. Understand what 'disinfecting' files means.
		US1.7.2.3	Understand good practice when downloading files, accessing file attachments, such as: use of virus scanning software, not opening unrecognised e-mail messages, not opening attachments contained within unrecognised e-mail messages.
<b>US1.8 Copyright and the Law</b>	<i>US1.8.1 Copyright</i>	US1.8.1.1	Understand the concept of copyright when applied to software, and also to files such as: graphics, text, audio, video. Understand copyright issues involved in downloading information from the Internet.
		US1.8.1.2	Understand copyright issues associated with using and distributing materials stored on removable media such as CD's, Zip disks, diskettes.
		US1.8.1.3	Know how to check the Product ID number for a software product. Understand the terms shareware, freeware, end-user license agreement.
	<i>US1.8.2 Data Protection Legislation</i>	US1.8.2.1	Know about data protection legislation or conventions in your country. Understand the implications of data protection legislation for data subjects and data holders. Describe some of the uses of personal data.

## Unit 2 – Using the Computer and Managing Files

Category	Skill Set	Ref.	Task Item
<b>UC1.1 Computer Environment</b>	<i>UC1.1.1 First Steps with the Computer</i>	UC1.1.1.1	Understand how to set up and use a work station safely including: equipment, layout, health and safety issues to self and others, and laws and guidelines that affect the use of IT.
		UC1.1.1.2	Start the computer. Shut down the computer using an appropriate routine.
		UC1.1.1.3	Restart the computer using an appropriate routine
		UC1.1.1.4	Shut down a non-responding application.
	<i>UC1.1.2 Basic Information and Operations</i>	UC1.1.2.1	View the computer's basic system information: operating system and version number, installed RAM (random access memory).
		UC1.1.2.2	Change the computer's desktop configuration: date & time, volume settings, desktop display options (colour settings, screen pixel resolution, screen saver options).
		UC1.1.2.3	Set, change keyboard language.
		UC1.1.2.4	Format removable disk media: diskette, Zip disk.
		UC1.1.2.5	Install, uninstall a software application.
		UC1.1.2.6	Use keyboard print screen facility and paste contents into a document.
		UC1.1.2.7	Use available Help functions.
	<i>UC1.1.3 Text Editing</i>	UC1.1.3.1	Launch a text editing application. Open, create a file.
		UC1.1.3.2	Save the file to a location on a drive.
		UC1.1.3.3	Close the text editing application.
	<b>UC1.2 Desktop</b>	<i>UC1.2.1 Work with Icons</i>	UC1.2.1.1
UC1.2.1.2			Select and move desktop icons.
UC1.2.1.3			Open a file, directory/folder, application from the desktop.
UC1.2.1.4			Create a desktop shortcut icon, desktop menu alias.
<i>UC1.2.2 Work with Windows</i>		UC1.2.2.1	Identify the different parts of a window: title bar, menu bar, toolbar, status bar, scroll bar.
		UC1.2.2.2	Collapse, expand, resize, move, close a window.
		UC1.2.2.3	Switch between open windows.

Category	Skill Set	Ref.	Task Item
<b>UC1.3</b> <b>Managing Files</b>	<i>UC1.3.1</i> <i>Concepts</i>	UC1.3.1.1	Understand how an operating system shows drives, folders, files in a hierarchical structure.
		UC1.3.1.2	Know that the devices used by an operating system to store files and folders are the hard disk, diskette, CD-ROM, network drives.
	<i>UC1.3.2</i> <i>Directories/Folders</i>	UC1.3.2.1	Navigate to a file, folder on a drive.
		UC1.3.2.2	Create a directory/folder and a further sub-directory/sub-folder.
		UC1.3.2.3	Open a window to display directory/folder name, size, location on drive.
	<i>UC1.3.3</i> <i>Working with Files</i>	UC1.3.3.1	Recognize common file types: word-processing files, spreadsheet files, database files, presentation files, image files, audio files, video files, compressed files, temporary files.
		UC1.3.3.2	Count the number of files, files of a particular type, in a folder (including any files in sub-folders).
		UC1.3.3.3	Change file status: read-only/locked, read-write.
		UC1.3.3.4	Sort files by name, size, type, date modified.
		UC1.3.3.5	Understand the importance of maintaining correct file extensions when re-naming files.
		UC1.3.3.6	Re-name files, directories/folders.
	<i>UC1.3.4</i> <i>Duplicate, Move</i>	UC1.3.4.1	Select a file, directory/folder individually or as a group of adjacent, non-adjacent files, directories/folders.
		UC1.3.4.2	Duplicate files, directories/folders between directories/folders and between drives.
		UC1.3.4.3	Move files, directories/folders between directories/folders and drives.
		UC1.3.4.4	Understand why making a 'backup' copy of files to a removable storage device is important.
	<i>UC1.3.5</i> <i>Delete, Restore</i>	UC1.3.5.1	Delete files, directories/folders to the recycle bin/wastebasket.
		UC1.3.5.2	Restore files, directories/folders from the recycle bin/wastebasket.
		UC1.3.5.3	Empty the recycle bin/wastebasket.
	<i>UC1.3.6</i> <i>Searching</i>	UC1.3.6.1	Use the Find tool to locate a file, directory/ folder.
		UC1.3.6.2	Search for files by content, date modified, date created, size, wildcards.
		UC1.3.6.3	View list of recently used files.

Category	Skill Set	Ref.	Task Item
	<i>UC1.3.7 Compressing Files</i>	UC1.3.7.1	Understand what file compression means.
		UC1.3.7.2	Compress files in a folder on a drive.
		UC1.3.7.3	Extract compressed files from a location on a drive.
<b>UC1.4 Viruses</b>	<i>UC1.4.1 Concepts</i>	UC1.4.1.1	Know what a virus is and what the effects of a virus might be.
		UC1.4.1.2	Understand some of the ways a virus can be transmitted onto a computer.
		UC1.4.1.3	Understand the advantages of a virus-scanning application.
		UC1.4.1.4	Understand what 'disinfecting' files means.
	<i>UC1.4.2 Handling Viruses</i>	UC1.4.2.1	Use a virus scanning application to scan specific drives, folders, files.
		UC1.4.2.2	Understand why virus-scanning software needs to be updated regularly.
<b>UC1.5 Print Management</b>	<i>UC1.5.1 Setup</i>	UC1.5.1.1	Change the default printer from an installed printer list.
		UC1.5.1.2	Install a new printer on the computer.
	<i>UC1.5.2 Print Outputs</i>	UC1.5.2.1	Print a document from a text editing application.
		UC1.5.2.2	View a print job's progress using a desktop print manager.
		UC1.5.2.3	Pause, re-start, delete a print job using a desktop print manager.

## Unit 3 – Word Processing

Category	Skill Set	Ref.	Task Item		
<b>WP2.1 Using the Application</b>	<i>WP2.1.1 First Steps with Word Processing</i>	WP2.1.1.1	Open (and close) a word processing application.		
		WP2.1.1.2	Open one, several documents.		
		WP2.1.1.3	Create a new document (based on default, other available template).		
		WP2.1.1.4	Save a document to a location on a drive.		
		WP2.1.1.5	Save a document under another name.		
		WP2.1.1.6	Save a document in another file type such as: text file, Rich Text Format, HTML, template, software specific file extension, version number.		
		WP2.1.1.7	Switch between open documents.		
		WP2.1.1.8	Use available Help functions.		
		WP2.1.1.9	Close a document.		
	<i>WP2.1.2 Adjust Settings</i>	WP2.1.2.1	Change between page view modes.		
		WP2.1.2.2	Use magnification/zoom tools.		
		WP2.1.2.3	Display, hide built-in toolbars.		
		WP2.1.2.4	Display, hide non-printing characters.		
		WP2.1.2.5	Modify basic options/preferences in the application: user name, default directory/ folder to open, save documents.		
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		<b>WP2.2 Main Operations</b>	<i>WP2.2.1 Insert Data</i>	WP2.2.1.1	Insert text.
				WP2.2.1.2	Insert special characters, symbols.
			<i>WP2.2.2 Select Data</i>	WP2.2.2.1	Select character, word, line, sentence, paragraph, entire body text.
				<i>WP2.2.3 Edit Data</i>	WP2.2.3.1
WP2.2.3.2	Use the undo, redo command.				

Category	Skill Set	Ref.	Task Item
	<i>WP2.2.4 Duplicate, Move, Delete</i>	WP2.2.4.1	Duplicate text within a document, between open documents.
		WP2.2.4.2	Move text within a document, between open documents.
		WP2.2.4.3	Delete text.
	<i>WP2.2.5 Search and Replace</i>	WP2.2.5.1	Use the search command for a specific word, phrase.
		WP2.2.5.2	Use a simple replace command for a specific word, phrase.
<b>WP2.3 Formatting</b>	<i>WP2.3.1 Text Formatting</i>	WP2.3.1.1	Change text appearance: font sizes, font types.
		WP2.3.1.2	Apply text formatting such as: bold, italic, underline.
		WP2.3.1.3	Apply subscript, superscript to text.
		WP2.3.1.4	Apply case changes to text.
		WP2.3.1.5	Apply different colours to text.
		WP2.3.1.6	Copy formatting from a piece of text to another piece of text.
		WP2.3.1.7	Apply an existing style to a word, a line, a paragraph.
		WP2.3.1.8	Use automatic hyphenation.
	<i>WP2.3.2 Paragraph Formatting</i>	WP2.3.2.1	Insert, remove paragraph marks.
		WP2.3.2.2	Insert, remove soft carriage return (line break) marks.
		WP2.3.2.3	Align text left, centre, right, justified.
		WP2.3.2.4	Indent paragraphs: left, right, first line, hanging.
		WP2.3.2.5	Apply single, double line spacing within paragraphs.
		WP2.3.2.6	Apply spacing above, below paragraphs.
		WP2.3.2.7	Set, remove and use tabs: left, centre, right, decimal.
		WP2.3.2.8	Apply bullets, numbers to a single level list. Remove bullets, numbers from a single level list.
		WP2.3.2.9	Change between the style of bullets, numbers in a single level list from built-in standard options.
		WP2.3.2.10	Add a top and bottom border, box border and shading to a paragraph.

Category	Skill Set	Ref.	Task Item
	<i>WP2.3.3 Document Formatting</i>	WP2.3.3.1	Change document orientation, portrait, landscape. Change paper size.
		WP2.3.3.2	Change margins of entire document, top, bottom, left, right.
		WP2.3.3.3	Insert, delete a page break in a document.
		WP2.3.3.4	Add, modify text in Headers, Footers.
		WP2.3.3.5	Add fields in Headers, Footers: date, page number information, file location.
		WP2.3.3.6	Apply automatic page numbering to a document.
<b>WP2.4 Objects</b>	<i>WP2.4.1 Tables</i>	WP2.4.1.1	Create a table ready for text insertion.
		WP2.4.1.2	Insert, edit data in a table.
		WP2.4.1.3	Select rows, columns, cells, entire table.
		WP2.4.1.4	Insert, delete, rows and columns.
		WP2.4.1.5	Modify column width, row height.
		WP2.4.1.6	Modify cell border width, style, colour.
		WP2.4.1.7	Add shading to cells.
	<i>WP2.4.2 Pictures, Images, Charts</i>	WP2.4.2.1	Insert a picture, an image, a chart into a document.
		WP2.4.2.2	Select a picture, image, chart in a document.
		WP2.4.2.3	Duplicate a picture, image, chart within a document, between open documents.
		WP2.4.2.4	Move a picture, image, chart within a document, to another document.
		WP2.4.2.5	Resize a picture, image, chart.
		WP2.4.2.6	Delete a picture, image, chart.
		<b>WP2.5 Mail Merge</b>	<i>WP2.5.1 Concept and Practice</i>
WP2.5.1.2	Open, prepare a main document for a mail merge by inserting data fields.		
WP2.5.1.3	Open, prepare a mailing list, other data file, for use in a mail merge.		
WP2.5.1.4	Merge a mailing list with a letter, label document.		

Category	Skill Set	Ref.	Task Item
<b>WP2.6 Prepare Outputs</b>	<i>WP2.6.1 Preparation</i>	WP2.6.1.1	Understand the importance of proofing your document such as: checking the layout, presentation (margins, appropriate font sizes and formats) and spelling.
		WP2.6.1.2	Spell-check a document and make changes such as correcting spelling errors, deleting repeated words.
		WP2.6.1.3	Add words to a built-in custom dictionary.
		WP2.6.1.4	Preview a document.
	<i>WP2.6.2 Printing</i>	WP2.6.2.1	Choose print output options such as: entire document, specific pages, number of copies.
		WP2.6.2.2	Print a document from an installed printer using defined options, default settings.

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## Unit 4 – Spreadsheets

Category	Skill Set	Ref.	Task Item
<b>SS2.1 Using the Application</b>	<i>SS2.1.1 First Steps with Spreadsheets</i>	SS2.1.1.1	Open (and close) a spreadsheet application.
		SS2.1.1.2	Open one, several spreadsheets.
		SS2.1.1.3	Create a new spreadsheet (default template).
		SS2.1.1.4	Save a spreadsheet to a location on a drive.
		SS2.1.1.5	Save a spreadsheet under another name.
		SS2.1.1.6	Save a spreadsheet in another file type such as: text file, HTML, template, software specific file extension, version number.
		SS2.1.1.7	Switch between worksheets, open spreadsheets.
		SS2.1.1.8	Use available Help functions.
		SS2.1.1.9	Close a spreadsheet.
	<i>SS2.1.2 Adjust Settings</i>	SS2.1.2.1	Use magnification/zoom tools.
		SS2.1.2.2	Display, hide built-in toolbars.
		SS2.1.2.3	Freeze, unfreeze row and/or column titles.
		SS2.1.2.4	Modify basic options/preferences in the application: user name, default directory/ folder to open, save spreadsheets.
<b>SS2.2 Cells</b>	<i>SS2.2.1 Insert Data</i>	SS2.2.1.1	Enter a number, date, text in a cell.
	<i>SS2.2.2 Select Cells</i>	SS2.2.2.1	Select a cell, range of adjacent cells, range of non-adjacent cells, entire worksheet.
		SS2.2.2.2	Select a row, range of adjacent rows, range of non-adjacent rows.
		SS2.2.2.3	Select a column, range of adjacent columns, range of non-adjacent columns.
	<i>SS2.2.3 Rows and Columns</i>	SS2.2.3.1	Insert rows, columns in a worksheet.
		SS2.2.3.2	Delete rows, columns in a worksheet.
		SS2.2.3.3	Modify column widths, row heights.
	<i>SS2.2.4 Edit Data</i>	SS2.2.4.1	Insert additional cell content, replace existing cell content.
		SS2.2.4.2	Use the undo, redo command.

Category	Skill Set	Ref.	Task Item
	<i>SS2.2.5 Duplicate, Move, Delete</i>	SS2.2.5.1	Duplicate the content of a cell, cell range within a worksheet, between worksheets, between open spreadsheets.
		SS2.2.5.2	Use the autofill tool/copy handle tool to copy, increment data entries.
		SS2.2.5.3	Move the contents of a cell, cell range within a worksheet, between worksheets, between open spreadsheets.
		SS2.2.5.4	Delete cell contents.
	<i>SS2.2.6 Search and Replace</i>	SS2.2.6.1	Use the search command for specific content in a worksheet.
		SS2.2.6.2	Use the replace command for specific content in a worksheet.
	<i>SS2.2.7 Sort Data</i>	SS2.2.7.1	Sort a cell range by one criterion in ascending, descending numeric order, ascending, descending alphabetic order.
<b>SS2.3 Worksheets</b>	<i>SS2.3.1 Handling Worksheets</i>	SS2.3.1.1	Insert a new worksheet.
		SS2.3.1.2	Rename a worksheet.
		SS2.3.1.3	Delete a worksheet.
		SS2.3.1.4	Duplicate a worksheet within a spreadsheet, between open spreadsheets.
		SS2.3.1.5	Move a worksheet within a spreadsheet, between open spreadsheets.
<b>SS2.4 Formulas and Functions</b>	<i>SS2.4.1 Arithmetic Formulas</i>	SS2.4.1.1	Generate formulas using cell references and arithmetic operators (addition, subtraction, multiplication, division).
		SS2.4.1.2	Recognize and understand standard error values associated with using formulas.
	<i>SS2.4.2 Cell Referencing</i>	SS2.4.2.1	Understand and use relative, mixed, absolute cell referencing in formulas.
	<i>SS2.4.3 Working with Functions</i>	SS2.4.3.1	Generate formulas using sum, average, minimum, maximum, count, functions.
		SS2.4.3.2	Generate formulas using the logical function if (yielding one of two specific values).

Category	Skill Set	Ref.	Task Item
<b>SS2.5 Formatting</b>	<i>SS2.5.1 Numbers/Dates</i>	SS2.5.1.1	Format cells to display numbers to a specific number of decimal places, to display numbers with, without commas to indicate thousands.
		SS2.5.1.2	Format cells to display a date style.
		SS2.5.1.3	Format cells to display a currency symbol.
		SS2.5.1.4	Format cells to display numbers as percentages.
	<i>SS2.5.2 Contents</i>	SS2.5.2.1	Change cell content appearance: font sizes, font types.
		SS2.5.2.2	Apply formatting to cell contents such as: bold, italic, underline, double underline.
		SS2.5.2.3	Apply different colours to cell content, cell background.
		SS2.5.2.4	Copy the formatting from a cell, cell range to another cell, cell range.
		SS2.5.2.5	Apply text wrapping to contents within a cell.
	<i>SS2.5.3 Alignment, Border Effects</i>	SS2.5.3.1	Align contents in a cell, cell range: left, centre, right, top, bottom.
		SS2.5.3.2	Centre a title over a cell range.
		SS2.5.3.3	Adjust cell content orientation.
		SS2.5.3.4	Add border effects to a cell, cell range.
		<b>SS2.6 Charts/Graphs</b>	<i>SS2.6.1 Using Charts/Graphs</i>
SS2.6.1.2	Add a title, label to the chart/graph. Remove a title, label from the chart/graph.		
SS2.6.1.3	Change the background colour in a chart/ graph.		
SS2.6.1.4	Change the column, bar, line, pie slice colours in the chart/graph.		
SS2.6.1.5	Change the chart/graph type.		
SS2.6.1.6	Duplicate, move charts/graphs within a worksheet, between open spreadsheets.		
SS2.6.1.7	Resize, delete charts/graphs.		

Category	Skill Set	Ref.	Task Item
<b>SS2.7 Prepare Outputs</b>	<i>SS2.7.1 Worksheet Setup</i>	SS2.7.1.1	Change worksheet margins: top, bottom, left, right.
		SS2.7.1.2	Change worksheet orientation: portrait, landscape. Change paper size.
		SS2.7.1.3	Adjust page setup to fit worksheet contents on one page, on a specific number of pages.
		SS2.7.1.4	Add, modify text in Headers, Footers in a worksheet.
		SS2.7.1.5	Insert fields: page numbering information, date, time, file name, worksheet name into Headers, Footers.
	<i>SS2.7.2 Preparation</i>	SS2.7.2.1	Understand the importance of checking spreadsheet calculations and text before distribution.
		SS2.7.2.2	Preview a worksheet.
		SS2.7.2.3	Turn on, off display of gridlines, display of row and column headings for printing purposes.
		SS2.7.2.4	Apply automatic title row(s) printing on every page of a printed worksheet.
	<i>SS2.7.3 Printing</i>	SS2.7.3.1	Print a cell range from a worksheet, an entire worksheet, number of copies of a worksheet, the entire spreadsheet, a selected chart.

## Unit 5 – Databases

Category	Skill Set	Ref.	Task Item
<b>DB2.1 Using the Application</b>	<i>DB2.1.1 Database Concepts</i>	DB2.1.1.1	Understand what a database is.
		DB2.1.1.2	Understand how a database is organised in terms of tables, records, fields, and with field data types, field properties.
		DB2.1.1.3	Understand what a primary key is.
		DB2.1.1.4	Understand what an index is.
		DB2.1.1.5	Understand the purpose of relating tables in a database.
		DB2.1.1.6	Understand the importance of setting rules to ensure relationships between tables are valid.
	<i>DB2.1.2 First Steps with Databases</i>	DB2.1.2.1	Open (and close) a database application.
		DB2.1.2.2	Open, log onto an existing database.
		DB2.1.2.3	Create a new database.
		DB2.1.2.4	Save a database to a location on a drive.
		DB2.1.2.5	Use available Help functions.
		DB2.1.2.6	Close a database.
	<i>DB2.1.3 Adjust Settings</i>	DB2.1.3.1	Change between view modes in a table, form, report.
		DB2.1.3.2	Display, hide built-in toolbars.
	<b>DB2.2 Tables</b>	<i>DB2.2.1 Main Operations</i>	DB2.2.1.1
DB2.2.1.2			Add, delete records in a table.
DB2.2.1.3			Add a field to an existing table.
DB2.2.1.4			Add, modify data in a record.
DB2.2.1.5			Delete data in a record.
DB2.2.1.6			Use the undo command.
DB2.2.1.7			Navigate within a table to next record, previous record, first record, last record, specific record.
DB2.2.1.8			Delete a table
DB2.2.1.9			Save and close a table.

Category	Skill Set	Ref.	Task Item
	<i>DB2.2.2</i> <i>Define Keys</i>	DB2.2.2.1	Define a primary key.
		DB2.2.2.2	Index a field with, without duplicates allowed.
	<i>DB2.2.3</i> <i>Table</i> <i>Design/Layout</i>	DB2.2.3.1	Change field format attributes such as: field size, number format, date format.
		DB2.2.3.2	Understand consequences of changing field size attributes in a table.
		DB2.2.3.3	Create a simple validation rule for number, text, date/time, currency.
		DB2.2.3.4	Change width of columns in a table.
		DB2.2.3.5	Move a column within a table.
	<i>DB2.2.4</i> <i>Table</i> <i>Relationships</i>	DB2.2.4.1	Create a one-to-one, one-to-many relationship between tables.
		DB2.2.4.2	Delete relationships between tables.
		DB2.2.4.3	Apply rule(s) to relationships such that fields that join tables are not deleted as long as links to another table exist.
<b>DB2.3</b> <b>Forms</b>	<i>DB2.3.1</i> <i>Working with</i> <i>Forms</i>	DB2.3.1.1	Open a form.
		DB2.3.1.2	Create and save a form.
		DB2.3.1.3	Use a form to enter, modify, delete records.
		DB2.3.1.4	Go to next record, previous record, first record, last record, specific record using form display.
		DB2.3.1.5	Add, modify text in Headers, Footers in a form.
		DB2.3.1.6	Delete a form.
		DB2.3.1.7	Save and close a form.
<b>DB2.4</b> <b>Retrieving</b> <b>Information</b>	<i>DB2.4.1</i> <i>Main Operations</i>	DB2.4.1.1	Use the search command for a specific word, number, date in a field.
		DB2.4.1.2	Apply a filter to a table, form.
		DB2.4.1.3	Remove a filter from a table, form.

Category	Skill Set	Ref.	Task Item
	<i>DB2.4.2 Queries</i>	DB2.4.2.1	Create and save a single table query, two-table query using specific search criteria.
		DB2.4.2.2	Add criteria to a query using any of the following operators: < (Less than), <= (Less than or equals), > (Greater than), >= (Greater than or equals), = (Equals), <> (Not equal to), And, Or.
		DB2.4.2.3	Edit a query by adding, removing criteria.
		DB2.4.2.4	Edit a query: add, remove, move, hide, unhide fields.
		DB2.4.2.5	Run a query.
		DB2.4.2.6	Delete a query.
		DB2.4.2.7	Save and close a query.
	<i>DB2.4.3 Sort Records</i>	DB2.4.3.1	Sort data in a table, form, query output, in ascending, descending numeric, alphabetic order.
<b>DB2.5 Reports</b>	<i>DB2.5.1 Working with Reports</i>	DB2.5.1.1	Create and save a report based on a table, query.
		DB2.5.1.2	Change arrangement of data fields and headings within a report layout.
		DB2.5.1.3	Group data under a specific heading (field) in a report in ascending, descending order.
		DB2.5.1.4	Present specific fields in a grouped report by sum, minimum, maximum, average, count, at appropriate break points.
		DB2.5.1.5	Add, modify text in Headers, Footers in a report.
		DB2.5.1.6	Delete a report.
		DB2.5.1.7	Save and close a report.
<b>DB2.6 Prepare Outputs</b>	<i>DB2.6.1 Prepare to Print</i>	DB2.6.1.1	Preview a table, form, report.
		DB2.6.1.2	Change report orientation: portrait, landscape. Change paper size.
	<i>DB2.6.2 Print Options</i>	DB2.6.2.1	Print a page, selected record(s), complete table.
		DB2.6.2.2	Print all records using form layout, specific pages using form layout.
		DB2.6.2.3	Print the result of a query.
		DB2.6.2.4	Print specific page(s) in a report, complete report.

## Unit 6 – Presentations

Category	Skill Set	Ref.	Task Item
<b>PR2.1 Using the Application</b>	<i>PR2.1.1 First Steps with Presentations</i>	PR2.1.1.1	Open (and close) a presentation application.
		PR2.1.1.2	Open one, several presentations.
		PR2.1.1.3	Create a new presentation (default template).
		PR2.1.1.4	Save a presentation to a location on a drive.
		PR2.1.1.5	Save a presentation under another name.
		PR2.1.1.6	Save a presentation in another file type such as: Rich Text Format, template, image file format, software specific file extension, version number.
		PR2.1.1.7	Switch between open presentations.
		PR2.1.1.8	Use available Help functions.
		PR2.1.1.9	Close a presentation.
	<i>PR2.1.2 Adjust Settings</i>	PR2.1.2.1	Use magnification/zoom tools.
		PR2.1.2.2	Display, hide built-in toolbars.
		PR2.1.2.3	Modify basic options/preferences in the application: user name, default directory/ folder to open, save presentations.
	<b>PR2.2 Developing a Presentation</b>	<i>PR2.2.1 Presentation Views</i>	PR.2.1.1
PR.2.1.2			Change between presentation view modes.
<i>PR2.2.2 Slides</i>		PR2.2.2.1	Add a new slide with a specific slide layout such as: title slide, chart and text, bulleted list, table.
		PR2.2.2.2	Change between built-in slide layouts.
		PR2.2.2.3	Change background colour on specific slide(s), all slides.
<i>PR2.2.3 Using Design Templates</i>		PR2.2.3.1	Apply an available design template to a presentation.
		PR2.2.3.2	Change between available design templates.

Category	Skill Set	Ref.	Task Item
	<i>PR2.2.4 Master Slide</i>	PR2.2.4.1	Insert a picture, image, drawn object into a master slide. Remove a picture, image, drawn object from a master slide.
		PR2.2.4.2	Add text into Footer of specific slides, all slides in a presentation.
		PR2.2.4.3	Apply automatic slide numbering, automatically updated date, non-updating date into Footer of specific slides, all slides in a presentation.
<b>PR2.3 Text and Images</b>	<i>PR2.3.1 Text Input, Formatting</i>	PR2.3.1.1	Add text into a presentation in standard, outline view.
		PR2.3.1.2	Edit slide content, notes pages content by inserting new characters, words.
		PR2.3.1.3	Change text appearance: font sizes, font types.
		PR2.3.1.4	Apply text formatting such as: bold, italic, underline.
		PR2.3.1.5	Apply case changes to text.
		PR2.3.1.6	Apply different colours to text.
		PR2.3.1.7	Apply shadow to text.
		PR2.3.1.8	Align text: left, centre, right in a slide.
		PR2.3.1.9	Adjust line spacing before and after bulleted, numbered points.
		PR2.3.1.10	Change between the style of bullets, numbers in a list from built-in standard options.
		PR2.3.1.11	Use the undo, redo command.
	<i>PR2.3.2 Pictures, Images</i>	PR2.3.2.1	Insert a picture into a slide.
		PR2.3.2.2	Insert an image into a slide.
		<i>PR2.3.3 Duplicate, Move, Delete</i>	PR2.3.3.1
PR2.3.3.2	Move text, pictures, images within the presentation, between open presentations.		
PR2.3.3.3	Resize pictures, images in a presentation.		
PR2.3.3.4	Delete text, pictures, images in a slide.		

Category	Skill Set	Ref.	Task Item
<b>PR2.4 Charts/Graphs, Drawn Objects</b>	<i>PR2.4.1 Using Charts/ Graphs</i>	PR2.4.1.1	Input data to create, modify different kinds of built-in charts/graphs in a slide: column, bar, line, pie.
		PR2.4.1.2	Change the background colour in the chart/ graph.
		PR2.4.1.3	Change the column, bar, line, pie slice colours in the chart/graph.
		PR2.4.1.4	Change the chart/graph type.
	<i>PR2.4.2 Organisation Charts</i>	PR2.4.2.1	Create an organisation chart with a labelled hierarchy. (Use a built-in organisation chart feature).
		PR2.4.2.2	Change the hierarchical structure of an organisation chart.
		PR2.4.2.3	Add, remove managers, co-workers, sub-ordinates in an organisation chart.
	<i>PR2.4.3 Drawn Objects</i>	PR2.4.3.1	Add different types of drawn object to a slide: line, free drawn line, arrow, rectangle, square, circle, text box, other available shapes.
		PR2.4.3.2	Change drawn object background colour, line colour, line weight, line style.
		PR2.4.3.3	Change arrow start style, arrow finish style.
		PR2.4.3.4	Apply a shadow to a drawn object.
		PR2.4.3.5	Rotate, flip a drawn object.
		PR2.4.3.6	Align a drawn object: left, centre, right, top, bottom of a slide.
		PR2.4.3.7	Resize drawn object, chart within the presentation.
		PR2.4.3.8	Bring an object to the front, back.
	<i>PR2.4.4 Duplicate, Move, Delete</i>	PR2.4.4.1	Duplicate a chart/graph, drawn object within the presentation, between open presentations.
PR2.4.4.2		Move a chart/graph, drawn object within the presentation, between open presentations.	
PR2.4.4.3		Delete a chart/graph, drawn object.	
<b>PR2.5 Slide Show Effects</b>	<i>PR2.5.1 Preset Animation</i>	PR2.5.1.1	Add preset text, image animation effects to slides. Change preset animation effects on text, images.
	<i>PR2.5.2 Transitions</i>	PR2.5.2.1	Add transition effects between slides. Change slide transition effects between slides.

Category	Skill Set	Ref.	Task Item
<b>PR2.6 Prepare Outputs</b>	<i>PR2.6.1 Preparation</i>	PR2.6.1.1	Select appropriate output format for slide presentation such as: overhead, handout, 35 mm slides, on-screen show.
		PR2.6.1.2	Spell-check a presentation and make changes such as: correcting spelling errors, deleting repeated words.
		PR2.6.1.3	Add notes for the presenter to slides.
		PR2.6.1.4	Change slide setup, slide orientation to portrait, landscape. Change paper size.
		PR2.6.1.5	Duplicate, move slides within the presentation, between open presentations.
		PR2.6.1.6	Delete a slide, slides.
	<i>PR2.6.2 Printing</i>	PR2.6.2.1	Print entire presentation, specific slides, handouts, notes pages, outline view of slides, number of copies of a presentation.
	<i>PR2.6.3 Deliver a Presentation</i>	PR2.6.3.1	Hide, show slides.
		PR2.6.3.2	Start a slide show, start a slide show on any slide.

## Unit 7 – Information and Communication

Category	Skill Set	Ref.	Task Item
IC1.1 The Internet	IC1.1.1 <i>Concepts/Terms</i>	IC1.1.1.1	Understand and distinguish between the Internet and the World Wide Web (WWW).
		IC1.1.1.2	Define and understand the terms: HTTP, URL, hyperlink, ISP, FTP.
		IC1.1.1.3	Understand the make-up and structure of a Web address.
		IC1.1.1.4	Know what a Web Browser is and what it is used for.
		IC1.1.1.5	Know what a Search Engine is and what it is used for.
		IC1.1.1.6	Understand the terms cookie, cache.
	IC1.1.2 <i>Security Considerations</i>	IC1.1.2.1	Know what a protected Web site is, (use of username and password).
		IC1.1.2.2	Know what a digital certificate is.
		IC1.1.2.3	Know what encryption is and why it is used.
		IC1.1.2.4	Be aware of the danger of infecting the computer with a virus from a downloaded file.
		IC1.1.2.5	Be aware of the possibility of being subject to fraud when using a credit card on the Internet.
		IC1.1.2.6	Understand the term firewall.
	IC1.1.3 <i>First Steps with the Web Browser</i>	IC1.1.3.1	Open (and close) a Web browsing application.
		IC1.1.3.2	Change the Web browser Home Page/ Startpage.
		IC1.1.3.3	Display a Web page in a new window.
		IC1.1.3.4	Stop a Web page from downloading.
		IC1.1.3.5	Refresh a Web page.
		IC1.1.3.6	Use available Help functions.
	IC1.1.4 <i>Adjust Settings</i>	IC1.1.4.1	Display, hide built-in toolbars.
		IC1.1.4.2	Display, hide images on a Web page.
IC1.1.4.3		Display previously visited URLs using the browser address bar.	
IC1.1.4.4		Delete browsing history.	

Category	Skill Set	Ref.	Task Item
<b>IC1.2</b> <b>Web Navigation</b>	<i>IC1.2.1</i> <i>Accessing Web Pages</i>	IC1.2.1.1	Go to a URL.
		IC1.2.1.2	Activate a hyperlink/image link.
		IC1.2.1.3	Navigate backwards and forwards between previously visited Web pages.
		IC1.2.1.4	Complete a Web-based form and enter information in order to carry out a transaction.
	<i>IC1.2.2</i> <i>Using Bookmarks</i>	IC1.2.2.1	Bookmark a Web page.
		IC1.2.2.2	Display a bookmarked Web page.
	<i>IC1.2.3</i> <i>Organizing Bookmarks</i>	IC1.2.3.1	Create a bookmark folder.
		IC1.2.3.2	Add Web pages to a bookmark folder.
		IC1.2.3.3	Delete a bookmark.
	<b>IC1.3</b> <b>Web Searching</b>	<i>IC1.3.1</i> <i>Using a Search Engine</i>	IC1.3.1.1
IC1.3.1.2			Carry out a search for specific information using a keyword, phrase.
IC1.3.1.3			Combine selection criteria in a search.
IC1.3.1.4			Duplicate text, image, URL from a Web page to a document.
IC1.3.1.5			Save a Web page to a location on a drive as a txt file, html file.
IC1.3.1.6			Download text file, image file, sound file, video file, software, from a Web page to a location on a drive.
<i>IC1.3.2</i> <i>Preparation</i>		IC1.3.2.1	Preview a Web page.
		IC1.3.2.2	Change Web page orientation: portrait, landscape. Change paper size.
		IC1.3.2.3	Change Web page margins top, bottom, left, right.
<i>IC1.3.3</i> <i>Printing</i>		IC1.3.3.1	Choose Web page print output options such as: entire Web page, specific page(s), specific frame, selected text, number of copies and print.

Category	Skill Set	Ref.	Task Item
<b>IC1.4 Electronic Mail</b>	<i>IC1.4.1 Concepts/Terms</i>	IC1.4.1.1	Understand the make-up and structure of an e-mail address.
		IC1.4.1.2	Understand the advantages and disadvantages of different e-mail systems such as: speed of delivery, low cost, additional functions such as formatting options, attachment restrictions, memory space and the flexibility of using a Web-based e-mail account in different locations.
		IC1.4.1.3	Understand the importance of network etiquette (netiquette) such as: using accurate descriptions in e-mail message subject fields, brevity in e-mail responses, spell checking outgoing e-mail and text formatting techniques.
	<i>IC1.4.2 Security Considerations</i>	IC1.4.2.1	Understand guidelines and regulations on using email such as sensitive content, phishing, identity theft, and common business rules and regulations.
		IC1.4.2.2	Be aware of the possibility of receiving unsolicited e-mail and the associated dangers of infecting the computer with a virus by opening an unrecognized mail message, an attachment contained within an unrecognized mail message.
		IC1.4.2.3	Know what a digital signature is.
		<i>IC1.4.3 First Steps with E-mail</i>	IC1.4.3.1
	IC1.4.3.2		Open a mail inbox for a specified user.
	IC1.4.3.3		Open one, several mail messages.
	IC1.4.3.4		Switch between open messages.
	IC1.4.3.5		Close a mail message.
	IC1.4.3.6		Use available Help functions.
	<i>IC1.4.4 Adjust Settings</i>	IC1.4.4.1	Add, remove message inbox headings such as: sender, subject, date received.
		IC1.4.4.2	Display, hide built-in toolbars.
<b>IC1.5 Messaging</b>	<i>IC1.5.1 Read a Message</i>	IC1.5.1.1	Flag a mail message. Remove a flag mark from a mail message.
		IC1.5.1.2	Mark a message as unread, read.
		IC1.5.1.3	Open and save a file attachment to a location on a drive and consider potential problems when trying to receive an attachment such as: file types, automatic anti-virus settings, network settings.

Category	Skill Set	Ref.	Task Item
	<i>IC1.5.2 Reply to a Message</i>	IC1.5.2.1	Use the reply, reply to all function.
		IC1.5.2.2	Reply with, without original message insertion.
	<i>IC1.5.3 Send a Message</i>	IC1.5.3.1	Create a new message using netiquette and formatting tools such as font, style and colour changes, layout, bullets and indents.
		IC1.5.3.2	Insert a mail address in the 'To' field.
		IC1.5.3.3	Copy (Cc), blind copy (Bcc) a message to another address/addresses.
		IC1.5.3.4	Insert a title in the 'Subject' field.
		IC1.5.3.5	Use a spell-checking tool if available and make changes such as: correcting spelling errors, deleting repeated words.
		IC1.5.3.6	Attach a file to a message and consider potential problems when trying to send attachments such as file sizes, file types, anti-virus restrictions, network restrictions.
		IC1.5.3.7	Send a message with high, low priority.
		IC1.5.3.8	Send a message using a distribution list.
		IC1.5.3.9	Forward a message.
	<i>IC1.5.4 Duplicate, Move, Delete</i>	IC1.5.4.1	Duplicate, move text within a message, or between other active messages.
		IC1.5.4.2	Duplicate text from another source into a message.
		IC1.5.4.3	Delete text in a message.
IC1.5.4.4		Delete a file attachment from an outgoing message.	
<b>IC1.6 Mail Management</b>	<i>IC1.6.1 Techniques</i>	IC1.6.1.1	Recognise some techniques to manage e-mail effectively such as creating and naming folders, moving messages to appropriate folders, deleting unrequired e-mail, using address lists.
		IC1.6.2.1	Create a new address list/distribution list.
	<i>IC1.6.2 Using Address Books</i>	IC1.6.2.2	Add a mail address to an address list.
		IC1.6.2.3	Delete a mail address from an address list.
		IC1.6.2.4	Update an address book from incoming mail.

Category	Skill Set	Ref.	Task Item
	<i>IC1.6.3 Organising Messages</i>	IC1.6.3.1	Search for a message by sender, subject, mail content.
		IC1.6.3.2	Create a new folder for mail.
		IC1.6.3.3	Move messages to a new folder for mail.
		IC1.6.3.4	Sort messages by name, by date.
		IC1.6.3.5	Delete a message.
		IC1.6.3.6	Restore a message from the mail bin/deleted items folder.
		IC1.6.3.7	Empty the mail bin/deleted items folder.
	<i>IC1.6.4 Prepare to Print</i>	IC1.6.4.1	Preview a message.
		IC1.6.4.2	Choose print output options such as: entire message, selected contents of a message, number of copies and print.

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