



LEVEL 2

UNIT 10: IT software installation and upgrade

L/615/1372

Guided learning hours: 30

Essential resources required for this unit: Candidates must have access to a range of software (such as application software, operating system software and utility software) and a suitable standalone or networked system in order to carry out installation and upgrade of software.

This unit is internally assessed and externally moderated by OCR.

UNIT AIM

The aim of this unit is to allow you to demonstrate an understanding of the installation and/or upgrade of software. This includes having an understanding of the reasons why upgrades/installations are required and the factors to be considered when carrying out an installation or upgrade. You will be expected to carry out software installation and upgrades for a specified purpose. Testing will be required with review of the test results and you will be expected to evaluate the effectiveness of the installation and upgrade you have carried out.

The unit will cover aspects of the CompTIA A+ Certification, specifically with reference to installing and upgrading software, and will also support the delivery of CompTIA IT Fundamentals

This unit is optional within the Award in Digital Business and in the IT Technical Practitioner pathway in the Diploma.

TEACHING CONTENT

The teaching content in every unit states what has to be taught to ensure that learners are able to access the highest grades.

Anything which follows an i.e. details what must be taught as part of that area of content. Anything which follows an e.g. is illustrative, it should be noted that where e.g. is used, learners must know and be able to apply relevant examples in their work, although these do not need to be the same ones specified in the unit content.

For internally assessed units you need to ensure that any assignments you create, or any modifications you make to an assignment, do not expect the learner to do more than they have been taught, but must enable them to access the full range of grades as described in the grading criteria.

Learning outcomes	Teaching content	
The Learner will:	Learners must be taught:	
Know the reasons for installing and upgrading IT software	 1.1. Reasons, i.e.: improvement to system (e.g. stability, performance, security, productivity) resolve issues (e.g. viruses, conflicts, etc.) new version of existing software available address risks (e.g. loss of data, loss of service, system downtime) address new/changed end user needs (e.g. changing business functions) address newly installed hardware needs (e.g. device drivers). 	
Be able to prepare for IT software installation and upgrade	 2.1. Preparing for installation and upgrade, i.e.: understand the requirements for the software installation and upgrade (e.g. business and/or client needs) select resources (e.g. software, diagnostic tools) prepare test plan back-up system check compatibility prepare installation/upgrade plan (e.g. work sheet) 2.2. Recommend the precautions to be taken, e.g.: check compatibility of software and hardware backup system to prevent loss of data consider viability of installation and upgrade comply with organisational and legislative requirements consider security implications to IT system. 	
3. Be able to install and upgrade IT software	 3.1. Follow installation plan (e.g. prepared in LO2) 3.2/3.3. Testing the functionality and compatibility of the installed and upgraded software, i.e.: follow prepared test plan carry out benchmarking troubleshoot test issues rectify faults and retest 	

Learning outcomes The Learner will:	Teaching content Learners must be taught:	
	 3.4 Effectiveness of upgrade/installation, e.g.: does it meet organisational and/or client requirements? does it function as required? is it compatible with other hardware and software on the system? is the system still secure? is the original data available and accessible? were there issues which could not be resolved? 	

GRADING CRITERIA

L		Pass	Merit	Distinction
		The assessment criteria are the Pass requirements for this unit.	To achieve a Merit the evidence must show that, in addition to the Pass criteria, the candidate is able to:	To achieve a Distinction the evidence must show that, in addition to the pass and merit criteria, the candidate is able to:
1.	Know the reasons for installing and upgrading IT software	P1: Describe the reasons for installing and upgrading IT software.		
2.	Be able to prepare for IT software installation and upgrade	P2: Prepare the installation and upgrade of IT software	M1: Recommend the precautions to be taken when installing and upgrading IT software.	
3.	Be able to install and upgrade IT software	P3: Carry out the installation and upgrading of IT software		D1: Evaluate the effectiveness of the installation and upgrading of IT software.
		P4: Conduct tests on the functionality of the IT software that has been installed and upgraded	M2: Review the results of the tests to confirm functionality and compatibility of installation and upgrade	

SYNOPTIC ASSESSMENT AND LINKS BETWEEN UNITS

When learners are taking an assessment task, or series of tasks, for this unit they will have opportunities to draw on relevant, appropriate knowledge, understanding and skills that they will have developed through other units. See section 6 of the Centre Handbook for more information on synoptic assessment.

This unit and specific LO	Name of other unit and related LO
LO1: Know the reasons for installing and upgrading IT software	Unit 1: Essentials of IT
	LO2: Know about software components
	LO3: Know how to install and upgrade hardware and software
	Unit 2: Essentials of cyber security
	LO1: Know about aspects of cyber security
	LO2: Understand the threats and vulnerabilitie3s they can make
	LO3: Understand how organisations/individuals can minimise impacts from cyber
	security attacks
	Unit 3: Building IT systems
	LO2: Be able to design IT systems to meet business needs
	Unit 6: Participating in a project
	LO2: Be able to contribute to a project
	Unit 8: Using emerging technologies
	LO1: Know the technologies currently emerging
	LO2: Be able to explore how emerging technologies can support business needs
	LO3: Be able to reflect on future impacts of emerging technologies
	Unit 9: Supporting IT functions
	LO3: Be able to diagnose software faults
	LO4: Be able to recommend maintenance activities
	Unit 11: IT hardware installation and upgrade
	LO1: Know the reasons for installing and upgrading IT hardware
	Unit 12: Creating a computer network
	LO1: Know the components of computer networks
LO2: Be able to prepare for IT software installation and upgrade	LO2: Know about software components
	Unit 1: Essentials of IT
	LO3: Know how to install and upgrade hardware and software
	Unit 3: Building IT systems
	LO3: Be able to select the components for designed IT systems
	Unit 6: Participating in a project
	LO2: Be able to contribute to a project
	Unit 11: IT hardware installation and upgrade
	LO2: Be able to prepare for IT hardware installation and upgrade

This unit and specific LO	Name of other unit and related LO	
	Unit 12: Creating a computer network	
	LO2: Be able to prepare for the installation of computer networks to meet business	
	needs	
LO3: Be able to install and upgrade IT software	Unit 1: Essentials of IT	
	LO3: Know how to install and upgrade hardware and software	
	Unit 2: Essentials of cyber security	
	LO3: Understand how organisations/individuals can minimise impacts from cyber	
	security attacks	
	Unit 3: Building IT systems	
	LO4: Be able to configure IT systems to meet business needs	
	Unit 6: Participating in a project	
	LO2: Be able to contribute to a project	
	Unit 11: IT hardware installation and upgrade	
	LO3: Be able to install and upgrade IT hardware	
	Unit 12: Creating a computer network	
	LO3: Be able to create computer networks to meet business needs	
	LO4: Be able to secure computer networks to meet business needs	

ASSESSMENT GUIDANCE

LO1 Know the reasons for installing and upgrading IT software

P1: Learners are asked to communicate the reasons for installing and upgrading IT software. It is recommended that the learners are provided with a context within which to demonstrate the knowledge requirements. This could then be used to support the evidence for the more practical aspects of this unit. To evidence this, learners could produce a written document, they could provide audio or video evidence of a discussion, or they could produce a poster/mind map that shows there is knowledge of the reasons for installing and upgrading software, or they could complete a job sheet with their recommendations.

LO2 Be able to prepare for IT hardware installation and upgrade

P2: Learners are asked to prepare the installation and upgrade IT software. It is important that the learners are provided with an IT system which will require them to consider the needs of the business and/or client, the type of installation and upgrade required, and the documentation they will need to complete to support this activity.

M1: Learners are required to recommend the precautions that they will take in order to successfully and securely install and upgrade the software on the given IT system. These recommendations must consider the various issues that can arise when carrying out such activities.

LO3 Be able to install and upgrade IT hardware

P3: Learners are required to carry out the installation and upgrading of the software on the given IT system based on the plans that they prepared for P2. Evidence could include a video of the installations, photographs or report.

P4/M2: Learners are required to conduct tests on the functionality of the IT software that has been installed and upgrade on the given IT system. The testing process should be based on the test plan that was originally created in P2 and may include benchmarking tests and diagnostic software tests. The tests should show the actual test carried out, the expected results, the actual results and any issues identified. Issues must be clearly addressed and retested with the test plan being updated.

D1: Learners are required to evaluate the effectiveness of the installation and upgrading of IT software. The evaluation could consider the process applied when installing/upgrading software, the issues that arose and whether they were able to resolve them as well as whether the installation/upgrade meets the original business and/or client requirements.

Feedback to learners: you can discuss work-in-progress towards summative assessment with learners to make sure it's being done in a planned and timely manner. It also provides an opportunity for you to check the authenticity of the work. You must intervene if you feel there's a health and safety risk.

Learners should use their own words when producing evidence of their knowledge and understanding. When learners use their own words it reduces the possibility of learners' work being identified as plagiarised. If a learner does use someone else's words and ideas in their work, they must acknowledge it,

and this is done through referencing. Just quoting and referencing someone else's work will not show that the learner knows or understands it. It has to be clear in the work how the learner is using the material they have referenced to inform their thoughts, ideas or conclusions.

For more information about internal assessment, including feedback, authentication and plagiarism, see the centre handbook. Information about how to reference is in the OCR Guide to Referencing available on our website: http://www.ocr.org.uk/i-want-to/skills-guides/

MEANINGFUL EMPLOYER INVOLVEMENT - a requirement for the Technical certificate qualifications

These qualifications have been designed to be recognised as Technical certificates in performance tables in England. It is a requirement of these qualifications for centres to secure for every learner employer involvement through delivery and/or assessment of these qualifications.

The minimum amount of employer involvement must relate to at least one or more of the elements of the mandatory content.

Eligible activities and suggestions/ideas that may help you in securing meaningful employer involvement for this unit are given in the table below.

Please refer to the Qualification Handbook for further information including a list of activities that are not considered to meet this requirement.

Meaningful employer engagement	Suggestion/ideas for centres when delivering this unit
 Learners undertake structured work-experience or work- placements that develop skills and knowledge relevant to the qualification. 	Learners could work with their college or school IT support team to develop skills required to install and upgrade software.
 Learners undertake project(s), exercises(s) and/or assessments/examination(s) set with input from industry practitioner(s). 	Industry practitioners (e.g. college or school IT support team) could be involved in preparing IT systems for the installation and upgrade of software.
 Learners take one or more units delivered or co-delivered by an industry practitioner(s). This could take the form of master classes or guest lectures. 	Industry practitioners (e.g. college or school IT support team) could be involved in the delivery of the technical aspects of the unit and be available to support learners in elements of the unit.
4. Industry practitioners operating as 'expert witnesses' that contribute to the assessment of a learner's work or practice, operating within a specified assessment framework. This may be a specific project(s), exercise(s) or examination(s), or all assessments for a qualification.	Industry practitioners (e.g. college or school IT support team) could be involved in the assessment of learners' work, providing witness statements to support the assessment of the practical activities.

You can find further information on employer involvement in the delivery of qualifications in the following documents:

- Employer involvement in the delivery and assessment of vocational qualifications
- DfE work experience guidance

To find out more ocr.org.uk/it

or call our Customer Contact Centre on 02476 851509

Alternatively, you can email us on vocational.qualifications@ocr.org.uk







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