



Australian Government

ICTNWK411 Deploy software to networked computers

Release: 1

ICTNWK411 Deploy software to networked computers

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 1.0.

Application

This unit describes the skills and knowledge required to plan, manage and support the installation of new or upgraded software to networked computers according to vendor and organisation specifications.

It applies to individuals involved in installing, configuring, maintaining and supporting software, such as network administrators and network support staff.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Unit Sector

Networking

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Determine operating system and software and hardware requirements	1.1 Assess client software and licensing requirements, considering compatibility with existing application software and operating system 1.2 Assess hardware requirements 1.3 Analyse requirements against local area network (LAN), wide area network (WAN), and wireless networks within organisational guidelines 1.4 Evaluate client requirements according to organisational guidelines, corporate purchasing procedures and budget
2. Obtain deployment software to automate	2.1 Evaluate deployment software according to client

ELEMENT	PERFORMANCE CRITERIA
deployment	requirements and organisational guidelines 2.2 Contact vendors and obtain technical specifications, including support arrangements and licensing 2.3 Acquire software and licences according to organisational procedures 2.4 Store software licences and manuals according to organisational guidelines
3. Automate installation of operating system via network	3.1 Plan and deploy operating system according to appropriate vendor installation procedures, with minimal disruption to network and clients 3.2 Configure and test installation to ensure that it meets client needs and vendor specifications 3.3 Install updates and patches
4. Automate installation of software packages via network	4.1 Plan and deploy software packages according to appropriate vendor installation procedures, with minimal disruption to network and clients 4.2 Configure and test installation to ensure that it meets client needs and vendor specifications 4.3 Install updates and patches
5. Test and sign off	5.1 Test installed operating system and software for error-free performance, identifying and resolving problems 5.2 Determine and document security and licensing issues 5.3 Obtain client evaluation and feedback to ensure that client requirements have been met

Foundation Skills

This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.

Skill	Performance Criteria	Description
Reading	1.4, 2.1, 2.3, 2.4, 3.1, 3.2, 4.1, 4.2	Recognises and interprets technical, licensing and organisational information to determine business requirements

Writing	1.3, 5.2	Develops material for a specific audience, using clear and detailed language in order to convey explicit information
Oral Communication	2.2, 5.3	- Uses active listening, observational and questioning techniques in order to identify information and confirm, clarify or revise understanding - Uses specific and relevant language to obtain information to determine job requirements
Numeracy	1.4	Uses mathematical formulas and calculations to estimate and plan costs according to business budgets
Navigate the world of work	1.1, 1.3, 1.4, 2.1-2.4, 5.2	Appreciates the implications of legal and regulatory responsibilities related to own work
Get the work done	1.1-1.4, 2.1, 2.3, 2.4, 3.1-3.3, 4.1-4.3, 5.1	- Determines job priorities, resources and equipment, and works logically and systematically - Understands the purposes, specific functions and key features of common digital systems and tools, and operates them effectively to complete routine tasks - Uses analytical processes to respond to deployment and configuration issues in the immediate work context - Automatically implements standard procedures for routine decisions

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTNWK411 Deploy software to networked computers	ICANWK411A Deploy software to networked computers	Updated to meet Standards for Training Packages	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>

Assessment Requirements for ICTNWK411 Deploy software to networked computers

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Performance Evidence

Evidence of the ability to:

- identify client software requirements
- plan and deploy automatic installation of operating system and software
- configure and test installation, ensuring client needs are met.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

To complete the unit requirements safely and effectively, the individual must:

- summarise network protocols and operating systems, including:
 - transmission control protocols (TCP)
 - internet protocols (IPs)
 - network applications
- describe organisational contracting procedures and responsibilities
- outline software licensing requirements and documentation
- explain current industry standards related to software deployment, including:
 - deployment software configuration
 - configuration of automated deployment processes
 - operating system deployment
 - software package deployment
 - troubleshooting deployment processes.

Assessment Conditions

Gather evidence to demonstrate consistent performance in conditions that are safe and replicate the workplace. Noise levels, production flow, interruptions and time variances must be typical of those experienced in the network industry, and include access to:

- a site or prototype where deployment processes may be implemented
- a live network
- software tools to support implementation of deployment processes
- technical documentation and installation manuals
- organisational guidelines.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

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