



Australian Government

ICTSUS402 Install and test power saving hardware

Release: 1

ICTSUS402 Install and test power saving hardware

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 2.0.

Application

This unit describes the skills and knowledge required to install and test power saving components in servers, motherboards and other networking equipment.

It applies to individuals in the information and communications technology (ICT) industry who operate with a degree of autonomy, but who may also supervise the work of others when necessary.

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

Unit Sector

Telecommunications – sustainability

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Plan to install and test power saving hardware	1.1 Arrange access to site according to required procedure 1.2 Assess extent of system implementation using feasibility report and organisational guidelines 1.3 Produce report to meet client and organisational requirements 1.4 Liaise with appropriate person to obtain approval for plans with recommendations 1.5 Determine and source power saving hardware components according to

	agreed plan
2. Install, test and evaluate power saving hardware	2.1 Install and configure components according to work health and safety (WHS) and environmental requirements, plan, and manufacturer's and industry standards 2.2 Resolve identified problems 2.3 Test and enhance system performance to meet organisational requirements
3. Complete documentation and clean up worksite	3.1 Produce evaluation report on actual cost and benefits of implementing power saving hardware in organisation 3.2 Provide support manual for client 3.3 Record all test results and records for client 3.4 Restore any changes made to worksite to client's satisfaction and obtain sign off

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	1.1, 1.2, 1.5, 2.1, 2.3	Identifies, analyses and evaluates complex text to determine legislative, regulatory, technical and business requirements, and to confirm requirements
Writing	1.3, 1.4, 3.1-3.3	Prepares reports, design solutions and recommendations that convey an understanding of outcomes and alternatives, and uses terminology appropriate to present to relevant personnel
Oral Communication	1.4	- Articulates clearly using specific language suitable for technical, operational and business audiences to convey requirements - Uses listening and questioning techniques to confirm understanding
Numeracy	3.1	Analyses numerical information to assess cost and benefits of power saving hardware
Navigate the world of work	1.1, 1.2, 2.1, 2.3	Recognises and responds to both explicit and implicit organisational procedures and protocols, and legislative and regulatory

		requirements
Interact with others	3.4	Selects appropriate communication protocols in a range of work contexts
Get the work done	1.1, 1.5, 2.1-2.3	- Develops plans for complex activities with strategic implications - Systematically gathers and analyses all relevant information and evaluates options to make informed decisions - Uses a range of digitally based technology and applications to access and filter data, and extract, organise, integrate and share relevant information in effective ways - Recognises and takes responsibility for addressing predictable and some less predictable problems in familiar work contexts

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTSUS402 Install and test power saving hardware	ICTSUS4184A Install and test power saving hardware	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 ICTSUS402 Install and test power saving hardware

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Performance Evidence

Evidence of the ability to:

- determine and meet client requirements for installation and testing of power saving hardware
- plan and connect the hardware components according to vendor and technical specifications.

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:

- describe systems diagnostic features
- outline business processes
- summarise client business domain, business function and organisation
- discuss compatibility issues and resolution procedures
- describe the process of configuration of internet protocol (IP) networks
- identify current industry accepted hardware products
- describe the major components of client and business liaison
- explain how to document technical specifications
- discuss linkage between processes
- identify set up and configuration procedures
- outline technologies such as:
 - areas of the hardware relevant to configuration and testing
 - installation procedures
 - power saving hardware functionality
- explain vendor specifications and requirements for component installation.

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 telecommunications – sustainability field of work and include access to:

- a site on which energy saving solutions can be implemented
- power saving hardware currently used in industry
- relevant documentation, feasibility studies, equipment manuals and other site-related documentation.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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