Australian Government

Department of Education, Employment and Workplace Relations

ICTSUS4185A Install and test power management software

Release: 1

INDUSTRY
SKILLS
COUNCILS
Creating Australia's Future

ICTSUS4185A Install and test power management software

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit describes the performance outcomes, skills and knowledge required to install and test power management software in network elements.
	No licensing, legislative, regulatory or certification requirements apply to this unit at the time of endorsement but users should confirm requirements with the relevant federal, state or territory authority.

Application of the Unit

Application of the unit	This unit is for technical staff who specify, install or upgrade ICT networks.

Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Prerequisite units	

       Innovation and Business Skills Australia

Employability Skills Information

Employability skills	This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Plan to install power management software	1.1. Arrange access to site according to required procedure 1.2. Assess extent of software implementation using feasibility report and *organisational guidelines* 1.3. Liaise with *appropriate person* to obtain approval for the plans 1.4. Determine and source new software required
2. Install software	2.1. Bench test software for performance utilising available technology 2.2. Install and configure software according to occupational health and safety (OHS) and environmental requirements, plan, installation procedures and *organisational requirements* 2.3. Resolve identified technical problems
3. Complete documentation and sign off procedures	3.1. Document the installation and configuration process according to organisational guidelines 3.2. Provide user documentation 3.3. Notify *customer* and obtain sign off

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE
This section describes the skills and knowledge required for this unit.
Required skills

• analytical skills to use information to meet organisational needs in a defined range of areas
• communication skills to:
   • interact with others
   • present information
   • question and actively listen to customers and vendors
• literacy skills to:
   • interpret technical installation manuals for renewable energy systems
   • process and present written information to a diverse range of people
• problem solving skills to meet a defined range of unpredictable problems

REQUIRED SKILLS AND KNOWLEDGE

Required knowledge

- areas of the hardware relevant to configuration and testing
- current industry-accepted software products, with general features and capabilities
- installation procedures
- OHS requirements in relation to work safety, environmental factors and ergonomic considerations
- power saving software functionality
- set-up and configuration procedures
- systems diagnostic features
- vendor specifications and requirements for component installation

Evidence Guide

EVIDENCE GUIDE	
The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.	
Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	Evidence of the ability to: • ascertain and meet client requirements for installation and testing of power management software • plan and connect the software components according to vendor and technical specifications across a variety of situations.
	Assessment must ensure: • site on which energy saving solutions can be implemented • use of current power saving software currently used in industry • relevant documentation, feasibility studies, equipment manuals and other site related documentation.
Method of assessment	A range of assessment methods should be used to assess practical skills and knowledge. The following examples are appropriate for this unit: • direct observation of the candidate carrying out installation and testing activities • review of plans completed by the candidate for different sites • oral or written questioning to assess methodology used.
Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended, for example: • ICTSUS5187A Implement server virtualisation for a sustainable ICT system • ICTSUS4183A Install and test renewable energy system for ICT networks • ICTSUS4184A Install and test power saving hardware • ICTSUS4186A Install thin client applications for

EVIDENCE GUIDE	
	Power over Ethernet.
	Aboriginal people and other people from a non-English speaking background may have second language issues.
	Access must be provided to appropriate learning and assessment support when required.
	Assessment processes and techniques must be culturally appropriate, and appropriate to the oral communication skill level, and language and literacy capacity of the candidate and the work being performed.
	In all cases where practical assessment is used it will be combined with targeted questioning to assess required knowledge. Questioning techniques should not require language, literacy and numeracy skills beyond those required in this unit of competency.
	Where applicable, physical resources should include equipment modified for people with special needs.

Range Statement

RANGE STATEMENT	
The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.	
Organisational guidelines may include:	• communication methods • documenting procedures and templates • measures to save power.

RANGE STATEMENT	
Appropriate person may include:	- authorised business representative - client - supervisor.
Organisational requirements may include:	- preventative maintenance and diagnostic policy - problem solution processes - roles and technical responsibilities in the IT department - vendor and product service level support agreements - work environment policies and practices.
Customer may include:	- department within the organisation - person within a department - third party.

Unit Sector(s)

Unit sector	Telecommunications

Co-requisite units

Co-requisite units		

Competency field

Competency field	Sustainability

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