



Australian Government

ICTSUS401 Install and test renewable energy system for ICT networks

Release: 1

ICTSUS401 Install and test renewable energy system for ICT networks

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 a renewable energy system and integrate it into an information and communications technology (ICT) network.

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

The specialised nature of the role focuses on meeting sustainability targets using renewable energy solutions and resulting in more economical systems.

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 renewable energy system	1.1 Prepare for work according to relevant legislation, codes, regulations and standards 1.2 Arrange access to site according to required procedure 1.3 Assess extent of system implementation using feasibility report and organisational guidelines 1.4 Produce report to meet client and organisational requirements 1.5 Liaise with appropriate person to obtain approval for plans

	with recommendations 1.6 Determine and source renewable energy components according to agreed plan
2. Install and test renewable energy system	2.1 Install and configure components according to work health and safety (WHS) and environmental requirements, plan, and manufacturer's and organisational requirements 2.2 Identify and resolve problems 2.3 Integrate renewable system into network 2.4 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 renewable energy system to organisation 3.2 Provide support manual for client 3.3 Record all test results and records for client 3.4 Notify client 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, 1.3, 1.4, 1.6, 2.1, 2.4	Identifies, analyses and evaluates complex text to determine legislative, regulatory, technical and business requirements, and confirm network requirements
Writing	1.4, 1.5, 3.2-3.4	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	1.5, 3.4	- 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 renewable energy options

Navigate the world of work	1.1-1.4, 2.1, 2.4	Recognises and responds to both explicit and implicit organisational procedures and protocols, and to legislative and regulatory requirements
Interact with others	3.2, 3.4	Selects appropriate communication protocols in a range of work contexts
Get the work done	1.1-1.3, 1.6, 2.1-2.4	- 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
ICTSUS401 Install and test renewable energy system for ICT networks	ICTSUS4183A Install and test renewable energy system for ICT networks	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 ICTSUS401 Install and test renewable energy system for ICT networks

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

Performance Evidence

Evidence of the ability to:

- determine and meet client requirements for installation of a renewable energy system
- plan and connect hardware components according to vendor and technical specifications
- follow all work health and safety (WHS) requirements.

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
- explain business processes
- identify client business domain, business function and organisation
- outline compatibility issues and resolution procedures
- discuss the configuration of internet protocol (IP) networks
- identify current industry accepted hardware products and renewable energy system products
- outline the essential components of client and business liaison
- explain how to document technical specifications
- describe the linkage between processes
- describe vendor specifications and requirements for component installation
- discuss the following technologies:
 - alternate energy, such as solar, wind and chemical
 - areas of the hardware relevant to configuration and testing
 - installation procedures
 - renewable energy system relevant to configuration and testing

- renewable energy system functionality
- set up and configuration procedures.

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 renewable energy solutions can be implemented
- renewable energy systems 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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