



Australian Government

ICTDRE301 Install digital reception equipment

Release: 2

ICTDRE301 Install digital reception equipment

Modification History

Release	Comments
Release 2	This version released with ICT Information and Communications Technology Training Package Version 5.0.
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 configure digital reception equipment (DRE) on a customer's premises.

It applies to individuals who install and maintain DRE in home or small business networks, and includes integration of many services such as broadband, digital TV, free to air (FTA), subscription TV (pay TV) and internet protocol TV (IPTV).

This unit should only be undertaken by experienced cablers to enhance their cabling skills.

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

Unit Sector

Telecommunications – Digital Reception Technology

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. Prepare for installation	1.1 Obtain relevant legislation, codes, regulations and standards for compliance when conducting work 1.2 Notify customer to verify installation order and arrange for site access to comply with security arrangements 1.3 Notify supervisor of identified safety hazards at the worksite and complete a job safety analysis (JSA) before commencing work 1.4 Confirm location of digital reception equipment and fittings with

ELEMENT	PERFORMANCE CRITERIA
	customer 1.5 Identify barriers to installation and develop strategies to overcome them within time and budget restrictions 1.6 Select and obtain tools and materials appropriate for the work order
2. Install hardware and equipment	2.1 Measure signal level at wall plate to ensure received signal strength is adequate 2.2 Test customer's existing equipment for operational condition and reception quality 2.3 Notify customer of detected problems and record remedial actions if required 2.4 Identify interconnection cabling requirements and prepare cables for job requirements 2.5 Affix wall plate to agreed position on wall and secure cable according to specification 2.6 Connect set top unit to customer equipment and connect cabling between wall plate and set top unit following work health and safety (WHS) and environmental requirements 2.7 Power up set top unit and configure it to customer requirements 2.8 Activate customer services to complete hardware installation where required
3. Commission and test installation	3.1 Conduct functional test to assess transmission signal quality 3.2 Conduct tests to ensure quality of all services are being delivered against enterprise quality standards 3.3 Check all interconnected equipment is functional
4. Finalise installation and handover to customer	4.1 Restore site to original condition and customer satisfaction 4.2 Assess damages that may have occurred during installation and arrange with customer for repair or replacement of damaged components 4.3 Remove waste and debris from site and dispose of in a safe and environmentally appropriate manner 4.4 Conduct customer training appropriate to equipment, services and vendor literature
5. Complete contract documentation	5.1 Provide warranties to customer in required format where work and equipment are subject to warranty 5.2 Prepare invoices and other financial documentation, where

ELEMENT	PERFORMANCE CRITERIA
	required, and present to customer 5.3 Obtain authorised signatures on required documentation to confirm acceptance of completed work

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

Skill	Description
Reading	Interprets textual information from relevant sources to identify key information
Writing	Uses clear, specific and industry-related terminology to complete workplace documentation
Oral Communication	Articulates clearly using appropriate language for environment and uses listening techniques to confirm understanding
Numeracy	Takes readings and measurements and interprets results
Navigate the world of work	Takes responsibility for following safe, sustainable, appropriate and efficient workplace procedures
Interact with others	- Liaises with customer - Signs-off work when completed to customer's satisfaction
Get the work done	- Plans, organises and implements tasks efficiently to meet customer requirements - Resolves any problems arising from installation

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTDRE301 Install digital reception equipment (Release 2)	ICTDRE301 Install digital reception equipment (Release 1)	Updates to application and knowledge evidence.	Equivalent unit

Code and title current version	Code and title previous version	Comments	Equivalence status
		Updates to template to apply consistent format between units.	

Links

Companion Volume Implementation Guides are available from VETNet -

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

Assessment Requirements for ICTDRE301 Install digital reception equipment

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- identify installation requirements and obtain required approvals
- install equipment applying work health and safety (WHS) requirements and work practices
- configure set equipment to customer requirements
- conduct functionality tests and interpret results
- provide customer training appropriate to equipment
- complete task and handover to customer.

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

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- a range of products used across the industry
- contemporary equipment and connection methods
- customer service principles, including dealing with customers face to face
- enterprise or service specific knowledge of products and services supplied
- work health and safety general principles and enterprise specific job safety analysis (JSA) requirements
- an overview of:
 - methods of training customer in product use

- radio frequency (RF) theory, principles and safety
- telephony principles to support return path awareness
- pre-installation enterprise specific requirements
- enterprise quality assurance requirements
- return path technology
- technology on customer premises
- test results
- reception issues.

Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry.

This includes access to:

- site for digital reception equipment installation
- digital reception equipment currently used in industry
- test equipment required for digital reception equipment installation and testing.

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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