



Australian Government

Assessment Requirements for ICTDRE303 Install a complex digital reception system

Release: 2

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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.

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:

- obtain relevant approvals for access to site and equipment
- plan, assemble and install a complex digital reception system
- conduct functionality tests and interpret results
- examine performance of adjustments (tuning, balancing and replacing components)
- perform handover with customer
- apply related work health and safety (WHS) requirements and work practices.

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:

- procedures and equipment required for measurement of:
 - forward and reflected radio frequency (RF) power
 - feedline insertion loss
 - distance to fault
 - modulation error rate (MER) and bit error rate (BER) for purpose of signal integrity
- features of instruments, test equipment and performance requirements
- legislation, codes of practice and other formal agreements directly impacting operation and testing of radio communications antennas and equipment

- principles of master antenna television (MATV) and satellite master antenna television (SMATV)
- RF spectrum and its relationship to digital reception systems
- RF awareness, electromagnetic radiation (EMR) standards and specific WHS requirements impacting use and testing of radio communications instruments and equipment
- typical issues and challenges that occur in telecommunications antenna installations.

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 complex digital reception system installation
- complex digital reception systems currently used in industry
- test equipment required for digital reception system 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

Companion Volume Implementation Guides are available from VETNet -

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