



**Australian Government**

# **Assessment Requirements for ICTDRE314 Design communications wiring systems for customer premises**

**Release: 1**

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## Modification History

| Release   | Comments                                                                                               |
|-----------|--------------------------------------------------------------------------------------------------------|
| Release 1 | This version released with ICT Information and Communications Technology Training Package Version 5.0. |

## Performance Evidence

The candidate must demonstrate the ability to perform the tasks outlined in the elements, performance criteria, and foundation skills, and to:

- capture customer functional needs for wiring system
- apply industry standards, regulations and codes of practice when designing a wiring system for a customer
- develop a detailed design in compliance with industry practices, including signal losses and/or expected measurements to be achieved at wall plates
- document the design, including a bill of materials, schedule of work and associated costs and submit 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 demonstrate the knowledge required to perform the tasks outlined in the elements, performance criteria, and foundation skills, which includes knowledge about:

- cabling standards, regulations and codes applicable to cable design
- building regulations that apply to installation of cabling systems
- codes of practice and Australian Communications and Media Authority (ACMA) standards for home wiring
- carrier network delivery systems used in single dwelling and multi-dwelling units for:
  - fibre
  - fixed wireless
  - satellite
  - twisted copper pair
  - subscription TV
- cabling requirements of home technology applications taking into account:

- the user needs including age and assisted living conditions
- communications
- digital home health
- energy management
- entertainment
- intelligent light and power
- security and safety
- testing and commissioning methods and determine performance requirements for home technologies
- customer interface elements commonly considered when designing a wiring system
- common service providers clients may specify
- safety implications of the design for users
- design parameters for cable selection and support system of a wiring system
- documentation required when submitting a design to a customer.

## 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 should be typical of those experienced in the Telecommunications – Digital Reception Technology industry and include access to:

- a contemporary dwelling design
- a specification of a customer's functional requirements
- current standards, codes of practice and regulations.

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>