Assessment Requirements for ICTCBL246 Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule

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Modification History

Release	Comments
Release 2	This version released with ICT Information and Communications Technology Training Package Version 6.0. Release 2 created for editorial corrections.
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:

- complete a cabling installation and termination for:
    - three different types of telephone sockets:
        - Australian modular socket
        - RJ45, RJ12 or RJ11 modular socket
        - Mode 3 alarm socket
    - one network termination device (NTD), including the completion of TCA1 compliance forms and NTD records
- apply cable conductor identification codes to connector pins
- conduct tests and interpret cable test results
- interpret and apply standards and regulations
- comply with all related work health and safety (WHS) requirements and work practices
- meet Australian Communications and Media Authority's (ACMA) requirements
- install earthing to suit cabling conditions
- identify and rectify faulty cabling
- use appropriate personal protective equipment when performing cabling tasks.

Note: Evidence must be provided at least once when a specific volume or frequency is not stated.

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:

- legislation, regulations, codes, standards, rules, guidance notes and other formal agreements that impact on work, in particular:
  - Australian Communications and Media Authority (ACMA) Telecommunications Cabling Provider Rules, cabling registrars, cabler registration rules, regulations and standards
  - current Australian Standards including AS/CA S009:2013 Installation requirements for customer cabling (Wiring Rules)
  - national and state/territory WHS requirements
  - workplace and worksite requirements
  - cabling environment, cable type, cable identification, termination systems, earthing and protection, records
  - ACMA certified components list
  - labelling requirements
- basic electrical principles of:
  - insulation, resistance
  - capacitance
  - impedance – as causes of, impedance, attenuation and cross-talk
- cable conductor – types of codes
- customer switching systems and services
- printed circuit boards
- cable screening types
- colour codes
- various cable types, their identifiers, termination systems, separations, support systems and fastening techniques used for communications cabling
- features and operating requirements of recognised cabling specific industry test equipment
- information required to operate equipment according to a test specification
- manufacturer requirements for safe operation of equipment
- test methods and performance requirements
- installation requirements for underground and aerial cables including:
  - minimum depth of cover (below ground)
  - segregation from hazardous electrical and other services
  - earthing requirements
- design parameters for underground cables with regards to the purpose they will serve and the prevention of water ingress.

Assessment Conditions

Skills must be assessed in a workplace or simulated environment where conditions are typical of those in a telecommunications work environment or workplace.

Access is required to:

- site/s on which communications cabling activities can be carried out
- cabling and field equipment currently used in industry
- licensing requirements 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. Refer also to the *Requirements for assessors* in the ICT Information and Communications Technology Training Package Companion Volume Implementation Guide.

Links

Companion Volume Implementation Guides are available from VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2