



Australian Government

Assessment Requirements for ICTCBL248 Install and terminate hard-line coaxial cable

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:

- determine installation requirements
- prepare site for hard-line coaxial cable installation
- identify hard-line coaxial cable types
- perform an in-line splice
- terminate hard-line coaxial cable using specialised hand or power tools and equipment
- terminate hard-line coaxial cable to network devices using:
 - a pin connector
 - 90- or 180-degree adaptors
 - housing to housing adaptor
- determine and achieve pin connector centre pin lengths on a device per device basis
- heat shrink hard-line splice or termination using the clean, abrade, flame-brush method
- waterproof jointed cable using heat shrinkage
- apply related work health and safety (WHS) requirements and work practices
- conduct continuity tests
- fit spliced coaxial cable in suitable housing (underground/aerial strand) and attach fitted off devices to:
 - pit or manhole wall, according to manufacturer specifications or carrier work instructions, taking care not to cause damage to co-located cables or joints
 - catenary according to manufacturer specifications or carrier work instructions, ensuring all clearances, separations and segregations from other cables or pole hardware is maintained
- confirm installation complies with industry and manufacturer specifications and warranties while:
 - maintaining all clearances separations and segregations from other cables or pole hardware
 - taking care not to cause damage to co-located cables or joints

- mark-up as-built plans and document work according to industry requirements.

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:

- RF common and RF design symbols
- RF design and other associated plans
- coaxial cables and connectors, and their application
- equipment and processes to perform a continuity test
- manufacturer requirements for safe operation of equipment and tools relevant to working with coaxial cable
- typical issues and challenges that occur on site including:
 - recycling of old connectors for use with existing devices resulting in incompatibility issues due to incorrect centre pin length leading to intermittent or ongoing faults
- WHS requirements relating to the activity and site conditions, including site security
- relevant legislation, codes and other formal agreements that impact on the work activity
- updating of records to report on completed works.

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 where splicing and terminating of coaxial broadband cable can be conducted
- testing equipment currently used in industry
- relevant legislation, work instructions and equipment documentation that impacts on cable splicing, terminating and testing activities.

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>