



Australian Government

Assessment Requirements for ICTBWN306 Use radio frequency measuring instruments

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:

- comply with site-specific safety requirements and enterprise work health and safety (WHS) processes and procedures
- comply with all job requirements and WHS regulations, standards and work practices
- check and confirm calibration within appropriate dates of tools and instruments
- operate the following equipment:
 - radio frequency (RF) signal level meter (SLM)
 - RF leakage meter
- perform the following RF measurements:
 - determine relative RF power level (in dB)
 - determine relative RF voltage (in dBmV)
 - determine RF signal quality (MER and BER).

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:

- instruments used in measuring RF frequencies including:
 - RF signal level meter with and without tone generator
 - RF leakage detector
- types of RF measurements and their respective interpretation for RF frequencies including:
 - determining relative RF power level (in dB)

- determining relative RF voltage (in dBmV)
- consequences of poorly terminated RF connections
- data recording using the unit decibels (in dBmV)
- variations between RF connector adaptor types
- potential WHS hazards, risks and control measures when working with RF frequency measuring equipment
- RF industry spectrum and limits, and allocations.

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 measuring instruments can be used
- plant, tools and equipment currently used in industry
- relevant regulatory and equipment documentation that impacts on work 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>