



Australian Government

Assessment Requirements for ICTRFN505 Test and measure cellular phone and network equipment performance

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 7.0.

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:

- test and measure at least three different types of cellular phone and network equipment performances.

In the course of the above, the candidate must:

- plan and coordinate test activities and equipment
- test cellular phone and network equipment according to test procedures
- analyse test results
- make recommendations on performance in an evaluation report.

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:

- organisational procedures regarding:
 - accessing third-party sites
 - security arrangements
- functions and features of evaluation reports
- application of manufacturer technical documentation, test procedures, specifications and network procedures
- requirements of measurement schedules
- features and operational requirements of cellular test equipment, including the digital cellular test set, spectrum analyser and radio frequency (RF) power meter
- alarm-blocking procedures
- network components, functions and approved specifications

- information about transmission lines, transmitter and receiver architecture and associated cellular networks
- information about cellular antenna and feedlines, and their impact on mobile spectrum interference
- procedures to test network components
- types of adjustments needed when measuring cellular transmission
- types of networks that influence radio transmission paths and transmission lines
- required legislation, codes, company work practices, regulations and standards, work health and safety (WHS) requirements for scoped work.

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:

- sites on which cellular network testing may be conducted
- test equipment currently used in industry
- manufacturer and enterprise technical documentation.

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 Guide is found on VETNet -

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