



Australian Government

Assessment Requirements for ICTRFN502 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 2.0.

Performance Evidence

Evidence of the ability to:

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

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

To complete the unit requirements safely and effectively, the individual must:

- summarise the features and operating requirements of cellular test equipment, including the digital cellular test set, spectrum analyser and radio frequency (RF) power meter
- explain network components, their functions and approved specifications
- provide detailed information about transmission lines, transmitter and receiver architecture and associated cellular network
- provide detailed information about cellular antenna and feedlines, and their impact on mobile spectrum interference
- explain testing network components
- outline the types of adjustments that need to be made when measuring cellular transmission
- summarise the types of networks that will influence the transmission on the radio path and/or the transmission line.

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 – radio frequency networks field of work and include access to:

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

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