



Australian Government

Assessment Requirements for ICTRFN506 Evaluate radio frequency signal coverage plots

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:

- evaluate at least three radio frequency signal coverage plots.

In the course of the above, the candidate must:

- plan and coordinate at least three activities to produce coverage plots using required software settings
- determine a path profile for a point-to-point link
- evaluate and make recommendations on antenna installation specifications.

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
 - workplace reports and documentation
- antenna and propagation theory
- antenna array theory
- features of mapping coordinate systems and geocentric datums
- propagation models and their limitations in specific environments
- common issues across antenna installations and the creation of radiation patterns
- 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:

- a computer facility on which coverage plots and paths are generated
- propagation prediction software
- a digital terrain database.

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>