



**Australian Government**

**Assessment Requirements for ICTRFN503  
Evaluate and analyse radio frequency signal  
coverage plots**

**Release: 1**

# Assessment Requirements for ICTRFN503 Evaluate and analyse radio frequency signal coverage plots

## 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 activities to produce coverage plots using appropriate software settings
- generate:
  - a radio frequency (RF) signal coverage plot
  - a path profile for a point-to-point link
- evaluate, analyse and make recommendations on antenna installation specifications.

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:

- explain antenna and propagation theory
- explain antenna array theory
- summarise various mapping coordinate systems and their datums
- outline propagation models and their limitations in various environments
- outline specific issues related to antenna installations and the creation of particular radiation patterns.

## 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:

- a computer facility on which coverage plots and paths may be 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 guides are found in VETNet -

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