



Australian Government

Assessment Requirements for ICTTEN404

Install and configure a wireless mesh network

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 ability to:

- configure wireless mesh nodes
- install wireless mesh nodes, access point nodes and gateway
- test nodes for connectivity.

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 requirements for 802.11 wireless protocols
- describe allocation of internet protocol (IP) addresses and subnet masks
- summarise antenna gain and polarisation
- outline cable loss
- explain calculation of effective isotropic radiated power (EIRP)
- explain calculation of line of site radio range
- explain decibels and related units
- outline network topologies
- describe radio frequency (RF) bands
- summarise routing protocols
- outline transmission control protocols(TCP)-IP describe wireless networking hardware, access points, wireless routers and gateway.

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 networks engineering field of work and include access to:

- sites on which configuring and installing wireless mesh network may be conducted
- 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 guides are found in VETNet -

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