



Australian Government

Assessment Requirements for ICTRFN602 Produce and evaluate architecture designs for WiMAX networks

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:

- review and assess the Worldwide Interoperability for Microwave Access (WiMAX) communication architecture, hardware, protocols and networking systems for a new design
- integrate other wireless technologies
- analyse and evaluate competing wireless technologies
- design viable WiMAX network solutions
- assess network 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:

- outline the client business domain
- explain current industry accepted network hardware and software products and their general features and capabilities
- explain the design implications of the following:
 - current industry accepted WiMAX network protocols
 - remote user issues
 - management systems
 - WiMAX network design
 - WiMAX network traffic evaluation
- explain current industry security products, devices and procedures and their general features and capabilities

- outline theoretical concepts of current industry network development and design methodologies.

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:

- IEEE 802.16 standards for WiMAX
- client requirements
- technical specifications
- expected traffic volume
- vendors and vendor offerings and pricing
- information on a range of IT business solutions
- future organisational business processes
- a budget for architecture designs for WiMAX networks.

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>