Australian Government

Assessment Requirements for ICTTEN620 Produce and evaluate architecture designs for convergent cellular mobile networks

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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:

- produce and evaluate at least two architecture designs for at least two convergent cellular mobile networks.

In the course of the above, the candidate must:

- provide detailed summaries of the client's business domain when designing network
- provide detailed summaries of industry-accepted network hardware and software products and their general features and capabilities, when designing a general packet radio service (GPRS) for the latest, required networks
- design viable GPRS network solutions to meet business needs
- research design features of the latest two cellular networks.

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:

- required legislation, codes, company work practices, regulations and standards, workplace health and safety (WHS) requirements for scoped work
- features and capabilities of industry security products, devices and procedures
- global systems for the latest mobile network designs
- industry-accepted cellular mobile network protocols
- technical characteristics of GPRS systems, including:
  - capability classes and multi-slot classes
  - coding schemes
  - data rates
  - management systems when evaluating roaming features

- operating frequencies and modulation schemes
- remote user issues when establishing siting and types of antennas, terminals, processors, required protocols and the latest network architecture, based on technical specifications and user requirements
- concepts of three or more industry network developments and design methodologies used when designing networks
- requirements of workplace documentation, including reports.

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:

- cellular mobile network structures
- client requirements
- expected traffic volume
- information on a range of IT business solutions
- technical specifications
- vendors and vendor offerings and pricing.

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