Assessment Requirements for ICTOPN602 Manage dense wavelength division multiplexing transmission system

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:

- determine network parameters and set up performance monitoring
- manage network using appropriate software and tools
- monitor network for faults and performance
- produce fault and performance report
- analyse performance monitoring and alarm data
- prepare report with recommendations based on analysis.

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:

- discuss workplace and industry environment relevant to dense wavelength division multiplexing (DWDM)
- outline optical communications principles
- explain DWDM technology, its operation and testing principles
- summarise simple network management protocol (SNMP)
- explain organisational policies and procedures relevant to the DWDM
- determine appropriate report formats and communications tools required to make recommendations on performance and network degradation.

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 must be typical of those experienced in the Telecommunications – Optical Networks field of work and include access to:

- DWDM system and test equipment currently used in industry
- relevant equipment manuals, software manuals and other procedural 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