



Australian Government

Assessment Requirements for ICTTEN826

Evaluate and apply digital signal processing to communication systems

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 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:

- evaluate and apply at least two digital signal processes to communication systems.

In the course of the above, the candidate must:

- apply digital signal processing (DSP) criteria to a network system
- evaluate linear time invariant (LTI) system properties
- analyse digital and amplitude modulated signals using DSP methods and principles
- demonstrate an awareness of radio frequency issues required to DSP processes
- report on finding of analysis and use of DSP in a network system.

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
- digital communications systems
- Fourier transforms
- LTI
- various modulation methods, amplitude (AM), frequency (FM), phase (PM) and digital formats
- organisational policy and procedures for digital signal processing
- common non-compliance issues and responses
- workplace technical documentation and related 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:

- a network operations site
- digital communication systems
- simulation software
- network test equipment currently used in industry.

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>