



Australian Government

Assessment Requirements for ICTTEN812 Evaluate and apply digital signal processing to communications 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:

- apply digital signal processing (DSP) criteria to a telecommunications 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 relevant to DSP processes
- report on finding of analysis and use of DSP in a telecommunications system.

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:

- summarise digital communications systems
- explain Fourier transforms
- explain linear time invariant (LTI)
- explain various modulation methods, amplitude (AM), frequency (FM), phase (PM) and digital formats
- explain organisational policy and procedures for digital signal processing
- outline common non-compliance issues and responses.

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:

- a telecommunications operations site

- digital communication systems
- simulation software
- telecommunications 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 guides are found in VETNet -

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