



Australian Government

ICT80615 Graduate Certificate in Telecommunications Network Engineering

Release: 1

ICT80615 Graduate Certificate in Telecommunications Network Engineering

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 2.0.

Qualification Description

This qualification reflects the role of a technical manager utilising a high level of technical management skills and knowledge in telecommunications networks and systems who can:

- plan changes and analyse network problems over a wide range of telecommunications technologies at managerial/supervisory levels
- diagnose problems and provide network management support
- plan a project from a design specification, research telecommunications technologies to meet the required specifications and report on the implementation of the project plan
- research and analyse the key concepts in design, construct and modify network management databases
- evaluate management systems and procedures used by the telecommunications industry.

Licensing/Regulatory Information

Work functions in the occupational areas where this unit may be used are subject to regulatory requirements. Refer to the ICT Implementation Guide Companion Volume or the relevant regulator for details of licensing, legislative or certification requirements.

Entry Requirements

Entry to this qualification is limited to those individuals who:

- Have completed a Bachelor degree in related fields of study.

or

- Have completed a Diploma or Advanced Diploma qualification in related fields of study and two years equivalent full-time relevant workplace experience at a significant level of leadership and management responsibility and/or complexity in an enterprise.

or

Have three years equivalent full-time relevant workplace experience at a significant level of leadership and management responsibility and/or complexity in an enterprise.

Packaging Rules

Total number of units = 6

3 Core units plus

3 Elective units

The elective units consist of:

- all 3 elective units may be selected from the elective list below
- up to 2 elective units may be selected from any currently endorsed Training Package or accredited course at AQF Level 8 or above.

Elective units must be relevant to the work environment and the qualification, maintain the integrity of the Australian Qualification Framework (AQF) alignment and contribute to a valid, industry-supported vocational outcome.

Units selected from other Training Packages or accredited courses must not duplicate units selected from or available within the ICT Information and Telecommunications Technology Training Package.

Core Units

ICTPMG801 Manage a telecommunications workplace

ICTPMG803 Undertake a telecommunications project

ICTSUS804 Use ICT to improve sustainability outcomes

Elective Units

IT use (IP networks)

ICTICT815 Manage automated ICT system applications using Unix

Project management

ICTPMG802 Manage a telecommunications project

Sustainability

ICTSUS805 Manage improvements in ICT sustainability

Radio frequency networks

ICTRFN801 Produce a radio link budget

Telecommunications engineering networks

ICTTEN801 Plan a transmission network

ICTTEN802 Manage alignment of systems with product and technology strategy

ICTTEN803 Translate domain and solution architectures into platform requirements and designs

ICTTEN804 Manage end to end architectural solutions across multiple domains

ICTTEN805 Manage solution architecture and impacts in line with organisational processes

ICTTEN806 Manage application layer solutions

ICTTEN807 Manage voice, data and internet protocol network solutions

ICTTEN808 Manage network testing strategies

ICTTEN809 Analyse business specifications to produce technical solutions

ICTTEN814 Manage development and application of testing artefacts

ICTTEN815 Manage project requirements and process implementations

ICTTEN816 Scope project requirements and process solutions

Qualification Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICT80615 Graduate Certificate in Telecommunications Network Engineering	ICT70110 Vocational Graduate Certificate in Telecommunications Network Engineering	Updated to meet Standards for Training Packages	Equivalent qualification

Links

Companion volumes are available from the IBSA website -

http://companion_volumes.vetnet.education.gov.au/Pages/TrainingPackage.aspx?pid=18