Australian Government

ICT80415 Graduate Diploma of Telecommunications Network Engineering

Release 2

INDUSTRY
SKILLS
COUNCILS
Creating Australia's Future

ICT80415 Graduate Diploma of Telecommunications Network Engineering

Modification History

Release	Comments
Release 2	This version released with ICT Information and Communications Technology Training Package version 2.0. Release 2 created to update unit codes.
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 1.0

Qualification Description

This qualification provides the skills and knowledge for individuals in strategic and operational leadership roles in the technology domain. The individual provides domain thought leadership; assesses best possible and commercially viable telecommunications networks and systems solutions and services; plans changes to networks and systems in line with business strategy and enterprise product and technology roadmaps; analyses potential and real network problems; and develops innovative, commercially advantageous solutions.

The individual is a recognised authority and trusted business advisor for delivering tomorrow's solutions as well as optimisation of current network system performance and customer satisfaction. Research, analysis, design, development and deployment of technical and commercially viable solutions for: cloud computing, digital signal processing, cellular and satellite systems and telecommunications networks are requirements of the individual.

Licensing/Regulatory Information
No licensing, legislative or certification requirements apply to this qualification at the time of publication.

Entry Requirements

Entry to this qualification is limited to those who:

Have completed a Bachelor degree in related fields of study and 2 years equivalent full-time relevant workplace experience at a significant level of project or program leadership and management responsibility and/or complexity in an enterprise.

or

Have completed a Diploma or Advanced Diploma qualification in related fields of study and 3 years equivalent full-time relevant workplace experience at a significant level of project or program leadership and management responsibility and/or complexity in an enterprise.

or

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

Innovation and Business Skills Australia

Packaging Rules

Total number of units = 8
3 core units *plus*
5 elective units

The elective units must be relevant to the industry-supported vocational outcomes, local industry requirements and is to be chosen as follows:

The elective units consist of:

- up to 5 from the elective units listed below
- up to 1 from elsewhere in ICT Information and Communications Technology Training Package or any other Training Package or accredited course at Graduate Certificate level or above.

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

Core Units
ICTPMG802 Manage a telecommunications project
ICTPMG804 Evaluate and use telecommunications management networks
ICTSUS806 Lead applied research in ICT sustainability

Elective Units
BSBINN801 Lead innovative thinking and practice
ICTICT809 Facilitate business analysis
ICTICT801 Lead research into identifying new marketplace opportunities
ICTICT803 Endorse business plan components for a new initiative
ICTICT808 Direct the development of a knowledge management strategy for a business
ICTICT812 Develop a business intelligence framework
ICTICT814 Develop cloud computing strategies for a business
ICTICT815 Manage automated ICT system applications using enterprise wide operating system
ICTRFN801 Produce a radio link budget
ICTRFN802 Analyse a cellular mobile network system
ICTRFN803 Analyse a satellite communications system
ICTSUS807 Conduct and manage a life cycle assessment for sustainability
ICTTEN801 Plan a transmission network
ICTTEN805 Manage solution architecture and impacts in line with organisational processes
ICTTEN807 Manage voice, data and internet protocol network solutions
ICTTEN808 Manage network testing strategies
ICTTEN809 Analyse business specifications to produce technical solutions
ICTTEN810 Investigate the application of cloud networks in telecommunications switching
ICTTEN811 Evaluate and apply network security
ICTTEN812 Evaluate and apply digital signal processing to communications system
ICTTEN813 Produce engineering solutions using numerical computations and simulation

Qualification Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICT80415 Graduate Diploma in Telecommunications Network Engineering (Release 2)	ICT80415 Graduate Diploma in Telecommunications Network Engineering (Release 1)	Unit codes updated.	Equivalent qualification

Links

Companion volumes available from the IBSA website:
http://www.ibsa.org.au/companion_volumes -
http://companion_volumes.vetnet.education.gov.au/Pages/TrainingPackage.aspx?pid=18