Australian Government

ICT51115 Diploma of Telecommunications Planning and Design

Release: 1

ICT51115 Diploma of Telecommunications Planning and Design

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 specialist with a range of telecommunications skills and extensive knowledge of the core and access network capabilities of the service provider. An individual in this role can:

- plan the development of the customer access network infrastructure
- plan the development of the core network for the service provider and asset owner
- plan network capacity for new technology in products and services
- analyse demand data and evaluate network growth and impact on the network.

This qualification prepares individuals to work in the telecommunications industry in planning and designing additions and implementations to accommodate network growth and new technologies. This is required for the national broadband infrastructure network planning.

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 Certificate IV in Telecommunications Network Design or its equivalent.

or

- Have completed a minimum of three years equivalent full-time relevant workplace experience in the telecommunications industry with experience in provisioning, evaluation, planning, design, costing and deployment of core networks and access networks.

Packaging Rules

Total number of units = 12
6 Core units plus
6 Electives units

The elective units consist of:

* 6 units selected from any of the elective groups listed below.

A maximum of two elective units may be substituted with two units of competency from any currently endorsed Training Package or accredited course at AQF Level 5 or 6.

Elective units must be relevant to the work environment and the qualification, maintain the integrity of the Australian Qualifications 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 Communications Technology Training Package.

Core
BSBPMG521 Manage project integration
BSBSUS501 Develop workplace policy and procedures for sustainability
ICTNPL501 Develop planning strategies for core network design
ICTNPL502 Develop planning strategies for access network design
ICTNPL503 Apply service measures and demand forecasting to products and services planning
ICTNPL504 Develop planning strategies for building environment design

Electives

Financial management
BSBFIM501 Manage budgets and financial plans
FNSORG506 Prepare financial forecasts and projections

Education
ICTEDU501 Develop and deliver training associated with new and modified products

Design
BSBDES501 Implement design solutions
BSBDES502 Establish, negotiate and refine a design brief
BSBDES601 Manage design realisation
BSBDES602 Research global design trends

Network planning
ICTNPL601 Plan the development and growth of the telecommunications network

Innovation and Business Skills Australia

Project management
ICTPMG503 Prepare a project brief
ICTPMG504 Prepare project specifications
ICTPMG610 Develop a project management plan

Product skills and advice
ICTPRO501 Develop training, marketing and sales resources for telecommunications products

Sustainability
ICTSUS501 Implement server virtualisation for a sustainable ICT system

Telecommunications engineering networks
ICTTEN501 Provide consultancy and technical support in the customer premises equipment sector
ICTTEN517 Plan a wireless mesh network

Qualification Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICT51115 Diploma of Telecommunications Planning and Design	ICT50513 Diploma of Telecommunications Planning and Design	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