ICT80615 Graduate Certificate in Telecommunications Network Engineering
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Modification History

<table>
<thead>
<tr>
<th>Release</th>
<th>Comments</th>
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</thead>
<tbody>
<tr>
<td>Release 1</td>
<td>This version first released with ICT Information and Communications Technology Training Package Version 2.0.</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Code and title current version</th>
<th>Code and title previous version</th>
<th>Comments</th>
<th>Equivalence status</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICT80615 Graduate Certificate in Telecommunications Network Engineering</td>
<td>ICT70110 Vocational Graduate Certificate in Telecommunications Network Engineering</td>
<td>Updated to meet Standards for Training Packages</td>
<td>Equivalent qualification</td>
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</tbody>
</table>

**Links**

Companion volumes are available from the IBSA website -