



Australian Government

ICTNPL405 Develop provisioning of telecommunications building works project

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.

Application

This unit describes the skills and knowledge required to develop provisioning of building services, including gathering information on the role of power and building services, equipment and infrastructure deployments, building standards, building services capacity and building works programs to evaluate allowable types of building services.

It applies to individuals with a range of telecommunications skills and extensive knowledge of core and access network capabilities of the service provider. It prepares individuals for entry into planning and design for network additions and implementations to accommodate network growth and new technologies within the industry.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Unit Sector

Telecommunications – Network Planning

Elements and Performance Criteria

Element	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Scope the project	1.1 Prepare for given work according to relevant legislation, codes, regulations and standards, including work health and safety (WHS) processes and procedures 1.2 Determine the main role power and building services perform in a network facility and note their effect on network reliability and performance

	1.3 Assess the provisioning process required to identify, plan and implement power and building services for equipment deployment plans
2. Assess equipment and infrastructure deployments	2.1 Evaluate available capacity from power and cooling plant to support the effect on floor loading, power and heat load from equipment deployments 2.2 Determine different levels of reliability performance standards applicable to specific equipment deployment needs 2.3 Develop a process to plan or implement a power and building services upgrade compatible to the network equipment requirements 2.4 Assess options available to manage capacity growth in a facility and the effect of potential single points of failure in an end-to-end power and building services system
3. Develop building works programs	3.1 Develop short- and long-term works programs for building projects that include minor upgrades to large installations 3.2 Determine triggers that may require a power and building services capacity or reliability upgrade 3.3 Prioritise projects based on customer demand and business needs
4. Assess provisioning of building services	4.1 Assess the possible effect on current and future use of a building or space when provisioning power and building services 4.2 Produce cost estimates including constraints for provisioning of a power and building services upgrade

Foundation Skills

This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.

Skill	Performance Criteria	Description
Reading	1.1-1.3	Identifies and evaluates complex written and visual text in specialised workplace documentation to determine key information and specific requirements
Writing	1.2, 2.3, 3.1, 3.3, 4.2	Develops material for a specific audience using clear and detailed language and visuals employing expected forms and conventions
Oral Communication	1.2, 3.3	Articulates technical information using appropriate tone and vocabulary for intended audience

Numeracy	2.1, 2.2, 2.4, 4.1, 4.2	Employs mathematical calculations to interpret capabilities and limitations of different systems
Navigate the world of work	1.1	Takes personal responsibility for following explicit and implicit policies, procedures and legislative requirements
Get the work done	1.1-1.3, 2.1, 2.2, 2.4, 3.1-3.3, 4.1	- Takes responsibility for planning, sequencing and prioritising tasks and own workload for efficiency and effective outcomes - Makes routine decisions and implements standard procedures for routine tasks, using formal decision-making processes for more complex and non-routine situations - Addresses less predictable problems and initiates standard procedures in response, applying problem-solving processes in determining a solution

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTNPL405 Develop provisioning of telecommunications building works project	ICTNPL4111A Develop provisioning of telecommunications building works project	Updated to meet standards for Training Packages	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for ICTNPL405 Develop provisioning of telecommunications building works project

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Performance Evidence

Evidence of ability to:

- assess capacity and suitability of available power and building services for telecommunications building works
- develop a process to implement a power and building services upgrade
- develop short- and long-term works projects for equipment and infrastructure deployments
- produce accurate cost estimates for provisioning.

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:

- describe the process to assess capacity and suitability of available power and building services
- outline the following features of a building works project:
 - correlation between building service systems to network equipment requirements
 - different levels of reliability performance standards, applicable to specific equipment deployment needs
 - information required to assess effect on floor loading, power and heat load from equipment deployments
 - main regulatory standards
 - role of power and building services, capacity and standards
- establish the source of budget cost estimates
- define the specific short and long term works programs

- identify typical issues and challenges that occur in telecommunications building service systems and how these may be addressed
- outline the process for power and building services upgrades.

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 must be typical of those experienced in the Telecommunications – Network Planning field of work and include access to:

- building facilities where a telecommunications network project may be conducted
- relevant regulatory, organisational procedures
- documentation impacting work.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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