



Australian Government

ICTPMG403 Manage the delivery of network infrastructure

Release: 1

ICTPMG403 Manage the delivery of network infrastructure

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 manage the delivery of network infrastructure, including scoping the project, developing a project brief, managing the project and directing the activities of installation staff, building workers, contractors, manufacturers and vendors.

It applies to individuals who work in appropriate project management roles associated with access and core networks, including switching and transmission via optical fibre, radio, microwave and satellite.

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

Unit Sector

Telecommunications – project management

Elements and Performance Criteria

Elements	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 network infrastructure requirements	1.1 Determine requirements of project from client and approved network plan 1.2 Assess current access network conditions to determine existing network capacity and capability 1.3 Analyse site survey data and geographical information where necessary to assess suitability of site to design requirements 1.4 Assess risk of barriers to plan realisation to ensure delivery of

	network infrastructure project is achievable 1.5 Analyse impact on planning of relevant legislation and associated operational codes 1.6 Produce scoping document with consideration to new technology or technology features required in project
2. Develop project brief	2.1 Develop planning options considering current and new technology, facilities, features, and present and future needs 2.2 Conduct cost-benefit studies to guide decision making processes according to sound business practice 2.3 Discuss project brief with client, as required, and obtain approval of planning options 2.4 Produce planning specifications relating to location, route, area, product and/or platform 2.5 Estimate timing, costing and operating budget according to enterprise policy 2.6 Prepare final project brief and present to operational staff for implementation
3. Manage project	3.1 Define roles and responsibilities of stakeholders within terms of project 3.2 Establish reporting and communications line to ensure project is effectively managed 3.3 Review and continually monitor progress of project against deliverables and timelines, and invoke contingencies if required 3.4 Complete project documents in line with enterprise standards and guidelines

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, 1.5, 1.6, 3.3, 3.4	- Interprets and comprehends visual and written content in a variety of forms to determine key information, requirements and responsibilities - Researches relevant codes and standards to ensure latest requirements, regulations and standards are adhered to

Writing	1.6, 2.1, 2.3-2.6, 3.2, 3.4	Develops accurate technical documents for a specific audience using clear and specific instructions and data in a format and sequence that convey explicit information
Oral Communication	2.3, 2.6, 3.1, 3.2	- Elicits the views and opinions of others using listening and questioning skills - Clearly articulates information using relevant language with a level of negotiation
Numeracy	1.3, 2.2, 2.4, 2.5, 3.3	- Uses mathematical equations to estimate and cost numerical information - Uses financial analysis skills to identify potentially misleading information, review financial outcomes and develop material based on verified data
Navigate the world of work	1.5, 2.5, 3.4	Monitors adherence to legal and regulatory rights and responsibilities, and organisational policies and procedures, and considers own role in terms of its contribution to the broader goals of the work environment
Interact with others	2.6	Selects the appropriate form, channel and mode of communication for a specific purpose
Get the work done	1.1-1.4, 1.6, 2.1, 2.4, 2.5, 3.1-3.3	- Plans a range of routine tasks, accepting stated goals and aiming to achieve them efficiently - Takes responsibility for the outcomes of routine decisions related directly to own role - Recognises and anticipates an increasing range of familiar problems, their symptom and causes, actively looking for early warning signs and implementing contingency plans - Reflects on the ways in which digital systems and tools are used or could be used to achieve work goals, and begins to recognise strategic and operational applications

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTPMG403 Manage the delivery of network infrastructure	ICTPMG4152A Manage the delivery of network infrastructure	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 ICTPMG403 Manage the delivery of network infrastructure

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Performance Evidence

Evidence of the ability to:

- determine scope of network infrastructure requirements
- accurately analyse and document considerations in project specifications and the impact of legislative and environmental conditions on the project plan
- prepare a project brief outlining specifications, timeframes, costing and operating budget
- manage the delivery of network infrastructure to completion.

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:

- outline Australian Communications and Media Authority (ACMA) licensing requirements
- explain common client telecommunications applications and related equipment
- identify correct computer operation
- describe the workplace and industry environment
- outline industry cabling practices
- explain leasing versus purchase options
- identify legislative and environmental impacts, including options for green information and communications technology (ICT) installations
- outline network and transmission equipment, network topologies, interfaces and interconnect solutions
- describe work health and safety (WHS) procedures
- identify performance parameters and typical faults in equipment and related connection and transmission media, and various test equipment types
- explain the process of project management
- identify telecommunications components and assemblies
- identify warranty information and contractor work guarantees.

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 – project management field of work and include access to:

- sites on which projects may be conducted
- relevant databases, legislative requirements and other project related documentation.

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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