



Australian Government

ICTNPL408 Produce planning specifications for end-to-end service delivery

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 gather information on the types of end-to-end services and product delivery and evaluate their capability to meet present and future demands.

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 site specific safety requirements and enterprise work health and safety (WHS) processes and procedures 1.2 Determine types of currently deployed end-to-end service delivery networks by accessing and using network information sources 1.3 Produce a brief on how end-to-end service delivery network

ELEMENT	PERFORMANCE CRITERIA
	elements relate to the larger network and their impact on the work
2. Assess capacity and capability of a specific project	2.1 Determine the nature, quantity, architecture and condition of existing end-to-end service delivery network elements and attributes that contribute to determining planning specifications 2.2 Assess capacity and capability limitations of an existing end-to-end service delivery network project by accessing network information sources and conducting site visits 2.3 Assess capacity and capability limitations of a building facility project that contribute to determining planning specifications
3. Assess capacity and capability of product and service delivery	3.1 Determine types of currently deployed products and services by accessing sales and marketing information databases 3.2 Produce a brief evaluating capability and technology of current product and services to meet demands and their relationship to the larger network 3.3 Evaluate emerging technologies that contribute to determining planning specifications for demands of future products and services
4. Produce planning briefs	4.1 Produce a brief on the planning specifications of an end-to-end service delivery network and a building facility project for the planning department to determine current and future network demands 4.2 Produce a brief on products and services planning requirements for sales and marketing to determine provisioning of future demands

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, 1.2, 2.1, 2.2, 2.3, 3.3	- Analyses and evaluates complex written and visual text in specialised workplace documentation to determine key information and specific requirements - Evaluates complex text to determine legislative, regulatory and project requirements

Writing	1.3, 2.1, 2.2, 3.2, 4.1, 4.2	Develops material for a specific audience using clear and detailed language employing expected forms and conventions
Oral Communication	2.1, 2.2, 3.2, 4.1, 4.2	Articulates technical information using appropriate tone and vocabulary for the intended audience
Numeracy	2.3, 3.1	Employs mathematical calculations to compare capabilities and limitations of different systems and future configurations
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, 1.2, 2.1-2.3, 3.1, 3.3	- 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 - Uses familiar digital technologies and systems to access information, search and enter data and code, present information and communicate with others, cognisant of data security and safety

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTNPL408 Produce planning specifications for end-to-end service delivery	ICTNPL4114A Produce planning specifications for end-to-end service	Updated to meet standards for Training Packages	Equivalent unit

Code and title current version	Code and title previous version	Comments	Equivalence status
	delivery	Clarified performance criteria	

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 ICTNPL408 Produce planning specifications for end-to-end service delivery

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Performance Evidence

Evidence of ability to:

- access relevant network information databases to determine the types of end-to-end services and products
- conduct site evaluation assessment accurately
- evaluate capacity and capability of end-to-end services to meet current and future demands
- assess limitations of current end-to-end services and produce specifications to meet future demands
- assess limitations of current building facility and services and produce specifications to meet future demands
- summarise and produce planning briefs to network, sales and marketing planning sections.

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:

- identify emerging technologies, trends and products available overseas that will be in demand in the Australian market
- describe information required to prepare and review limits of:
 - broadband networks
 - data networks
 - facilities and environmental issues
 - fixed access transmission network
 - media and content
 - regional and metropolitan network

- voice networks
- wireless network
- outline the following aspects of network planning:
 - basic network design including routing and redundancy
 - levels of reliability performance standards applicable to specific equipment deployment needs
 - standards and regulations
- describe the distribution structure of networks including:
 - access
 - backbone
 - edge
- outline current equipment and product types to meet future service obligations.

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:

- a network planning area with systems and deployment rules and standards
- end-to-end services and products databases
- relevant workplace procedures
- product and manufacturing specifications
- codes of practice and standards
- manuals and reference materials.

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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