



Australian Government

ICTTEN403 Assign a transmission path

Release: 1

ICTTEN403 Assign a transmission path

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 allocate channel capacity to a customer or customer group based on details provided in a service request.

It applies to individuals working as technical officers or engineers for private and public organisations. They combine technical skills with organisational skills to assess customer requirements and allocate a transmission medium to provide access to the customer.

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

Unit Sector

Telecommunications – Telecommunications Networks Engineering

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. Collect data to evaluate capability of transmission path	1.1 Determine service details from service request 1.2 Use transmission medium plans to locate customer position relative to the access network provisioning 1.3 Evaluate existing transmission mediums in close proximity to assess their capability to deliver service to customer 1.4 Specify equipment to be used on the service from service request 1.5 Specify line interface type to be used, according to enterprise guidelines
2. Allocate transmission	2.1 Select appropriate transmission medium to deliver service to

ELEMENT	PERFORMANCE CRITERIA
medium for service	customer's premises 2.2 Record information about transmission medium between customer's premises and exchange or network terminal point 2.3 Verify service delivery point interface at exchange or network terminal point is compatible with required system 2.4 Conduct appropriate allocation process to assign new services and send completed allocation information to appropriate field staff to verify physical allocation before providing service
3. Maintain transmission medium records	3.1 Advise relevant personnel of impending bearer shortages to facilitate future planning allocation 3.2 Update plans and databases to record all details

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, 1.5	Recognises and interprets technical documentation to determine job requirements
Writing	1.4, 1.5, 2.2, 2.3, 3.1, 3.2	Uses clear, specific and industry-related terminology to record and notate workplace documentation
Oral Communication	1.4, 1.5, 2.3, 3.1	- Uses listening and questioning skills to confirm understanding of requirements and participates in a verbal exchange with technical staff, subject matter experts and manufacturers - Uses appropriate, detailed and clear language to address key personnel and disseminate information
Numeracy	2.4	Makes calculations to determine capacity requirements
Interact with others	2.4	Actively identifies requirements of important communication exchanges, selecting appropriate channels, format, tone and content to suit purpose and audience
Get the work done	1.3, 2.4, 3.2	Determines job priorities, resources and equipment, and works logically and systematically to undertake clearly defined and familiar tasks

		• Implements actions according to a predetermined plan, making slight adjustments if necessary • Takes responsibility for routine decision-making by selecting from a range of predetermined options in routine situations, identifying and taking some situational factors into account • Understands purpose and specific functions of common digital tools used in work contexts
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Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTTEN403 Assign a transmission path	ICTTEN4040A Assign a transmission path	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 ICTTEN403 Assign a transmission path

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Performance Evidence

Evidence of ability to:

- assess transmission needs for a transmission path according to service request
- select suitable equipment to provide new services
- communicate effectively with stakeholders to meet customer needs
- assess future needs.

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:

- review common customer telecommunications applications and related equipment
- investigate core networks using emerging and converging technologies
- explain current legislation relating to installation of telecommunications equipment and connection to carrier services
- evaluate customer access options and their technical support systems
- describe multiplexing principles and transmission hierarchies
- summarise network and transmission equipment
- outline network topologies, interfaces and interconnect solutions.

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 should be typical of those experienced in the telecommunications networks engineering field of work and include access to:

- sites where transmission paths can be allocated

- a computer networking facility
- relevant regulatory and equipment documentation
- equipment currently used in industry.

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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