



Australian Government

ICTTEN507 Cut over new and replacement network equipment

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 check plans, obtain equipment and supplies, initiate tests and complete administrative tasks.

It applies to individuals who may be field officers, technicians or technical supervisors for carriers, contractors or other service providers, who are involved in fast changeover of new and existing equipment in telecommunications networks, including digital switching and transmission, wireless and optical networks.

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. Plan cut over strategy	1.1 Determine the nature and scope of cut over activity from appropriate personnel 1.2 Prepare a cut over management plan in agreement with appropriate personnel and in line with regulations and service obligations 1.3 Obtain outage management plan if available, otherwise prepare a contingency plan to ensure system integration proceeds according to plan 1.4 Notify alarm management centre of action planned and obtain

ELEMENT	PERFORMANCE CRITERIA
	authority to proceed 1.5 Notify customers affected by the outage of time and likely duration
2. Cut over and test equipment into service	2.1 Perform cut over activities in a safe manner with minimal interruption to service and according to the cut over management plan 2.2 Conduct tests specified in cut over plan, according to technical manuals and specifications 2.3 Record and assess test results and ensure problems identified during cut over are rectified or escalated according to enterprise procedures 2.4 Analyse alarms for fault conditions in conjunction with network management centre 2.5 Enact contingency plans in the event of major problems during cut over
3. Complete administrative tasks	3.1 Complete test result sheets and hand over to operational personnel according to enterprise requirements 3.2 Ensure site is cleaned and ready for operational staff 3.3 Complete work documentation and administrative tasks and forward to appropriate area according to enterprise policy 3.4 Notify appropriate personnel of project completion and obtain sign-off

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	2.1-2.3, 3.1, 3.3	Identifies, analyses and evaluates equipment specifications, equipment readings and settings
Writing	1.1, 1.3, 2.3, 3.1, 3.3	Prepares written reports and workplace documentation that communicate complex information clearly and effectively
Oral	1.1, 1.2, 1.5	Participates in verbal exchanges with personnel and customers to ensure requirements are properly

Communication		understood Employs listening and questioning techniques to confirm understanding
Numeracy	2.3	Uses mathematical formulae to calculate measurements, analyse results and make adjustments to equipment and settings
Navigate the world of work	2.1, 3.2, 3.3	Works independently and collectively within broad parameters, with a strong sense of responsibility and ownership of goals, plans, decisions and outcomes, with specific reference to safe working practices and requirements
Interact with others	1.1, 1.2, 1.4, 1.5, 3.1, 3.4	- Considers purpose and possible actions to take as a result of any work related communication - Selects appropriate communication protocols and conventions in a broad range of work contexts, with a growing awareness of subtle impacts of choices made
Get the work done	1.1, 1.3, 2.2-2.5, 3.3, 3.4	- Uses a combination of formal, logical planning processes and an increasingly intuitive understanding of context, to identify relevant logistic requirements, test strategies and resources - Understands key principles and concepts underpinning design and operation of digital systems and tools, and applies these as required - Implements actions according to a predetermined plan, making adjustments if necessary - Makes decisions quickly and intuitively in familiar situations requiring immediate attention, drawing on past experience to identify key variables and determine the best course of action - Uses analytical processes to decide on a course of action, establishing criteria for deciding between options and seeking input and advice from others before taking action when necessary

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTTEN507 Cut over new	ICTTEN5061A Cut over new	Updated to meet	Equivalent unit

Code and title current version	Code and title previous version	Comments	Equivalence status
and replacement network equipment	and replacement network equipment	Standards for Training Packages.	

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 ICTTEN507 Cut over new and replacement network equipment

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Performance Evidence

Evidence of ability to:

- develop and implement a cut over plan and an outage plan
- develop a contingency plan
- apply enterprise escalation and outage procedures
- cut over and test network equipment within an industry acceptable time period.

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:

- explain electrical and optical properties to be measured
- determine appropriate legislation and licensing surrounding installation of telecommunications equipment
- summarise power requirements and electrical safety
- evaluate types of test equipment and testing procedures suitable for tests to be performed
- explain transmission hierarchy and switching principles
- outline transmission type and signals that may be encountered.

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:

- a network and equipment for cut over
- equipment currently used in industry

- systems manuals, specifications and enterprise policy.

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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