



Australian Government

ICTTEN522 Cut over new and replacement network equipment

Release: 1

ICTTEN522 Cut over new and replacement network equipment

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 7.0.

Application

This unit describes the skills and knowledge required to cut over new and replacement network equipment by checking plans, obtaining equipment and supplies, initiating tests and completing administrative tasks.

It applies to individuals who may be field officers, technicians and technical supervisors for carriers, contractors or other service providers, who are involved in fast changeover of new and existing equipment in 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 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 Obtain work details and scope from relevant personnel and arrange for site access in compliance with required security arrangements, legislation, codes, regulations and standards 1.2 Prepare a cut over management plan in agreement with relevant personnel, regulations and service obligations 1.3 Obtain available incident management plan, otherwise prepare a contingency plan according to organisational requirements 1.4 Notify relevant personnel of action planned and obtain authority to proceed
2. Cut over and test	2.1 Perform cut over activities and tests according to the incident

ELEMENT	PERFORMANCE CRITERIA
required network equipment	plan, technical manuals and specifications 2.2 Record and assess test results and confirm problems identified during cut over are rectified and escalated according to enterprise procedures 2.3 Analyse system monitoring alerts and alarms for fault conditions 2.4 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 relevant personnel 3.2 Confirm functionality and that customer issues resulting from an incident have been resolved 3.3 Confirm site is cleaned and ready for operational staff 3.4 Complete work documentation and administrative tasks and forward to required area according to enterprise policy 3.5 Notify relevant personnel of project completion and obtain sign-off

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Numeracy	Uses mathematical formulae to calculate measurements, analyse results and make adjustments to equipment and settings
Oral communication	- Participates in verbal exchanges with personnel and customers to confirm requirements are properly understood - Employs listening and questioning techniques to confirm understanding
Reading	Identifies, analyses and evaluates equipment specifications, equipment readings and settings
Writing	Prepares written reports and workplace documentation that communicates complex information clearly and effectively
Teamwork	- Considers purpose and possible actions to take as a result of any work-required communication - Selects required communication protocols and conventions in a broad range of work contexts, with a growing awareness of subtle impacts of choices made
Planning and organising	Uses a combination of formal, logical planning processes to identify required information, test strategies and resources

SKILL	DESCRIPTION
Problem solving	• Makes decisions quickly 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
Self-management	• 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
Technology	• Understands key principles and concepts underpinning design and operation of digital systems and tools, and applies these as required

Unit Mapping Information

Supersedes and is equivalent to ICTTEN507 Cut over new and replacement network equipment.

Links

Companion Volume Implementation Guide is found on VETNet -

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

Assessment Requirements for ICTTEN522 Cut over new and replacement network equipment

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- develop and implement at least two cut-over plans and at least two outage plans.

In the course of the above, the candidate must:

- develop at least two contingency plans
- apply enterprise escalation and outage procedures
- cut over and test network equipment within an industry acceptable time period.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- required legislation, codes, company work practices, regulations and standards, workplace health and safety (WHS) requirements for scoped work
- functions and features of:
 - cut over management plans
 - outage plans
 - incident management plans
 - contingency plans
- electrical and optical properties to be measured
- power electrical safety requirements
- types of test equipment and testing procedures suitable for planned network cut over and replacement
- transmission hierarchy and switching principles
- transmission type and signals.

Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry.

This includes 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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