



Australian Government

ICTICT815 Manage automated ICT system applications using enterprise wide operating system

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 1.0.

Application

This unit describes the performance outcomes, skills and knowledge required to apply the enterprise wide operating system to system automation in a distributed computing environment as used in telecommunications applications.

It applies to telecommunication engineers who manage automated systems within a telecommunications network including databases, files systems and user administration.

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

Unit Sector

General ICT

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. Operate an enterprise wide operating system	1.1 Modify boot options by operating an enterprise wide operating system 1.2 Shutdown a networked operating system using system commands with qualifiers 1.3 Manage files using file management commands and wildcards and creating disk partitions and other media file systems 1.4 Mount and unmount file systems using system commands 1.5 Verify the integrity of file systems using system utilities 1.6 Configure telecommunication applications by using system

	commands with special permission modes 1.7 Critically analyse, evaluate and apply the enterprise wide operating system features to a given telecommunications multi-user application using distributed computing
2. Apply system functions	2.1 Use the command line interface to interact with shells and commands to the telecommunications application on distributed computing 2.2 Manage files by applying regular expressions with system functions 2.3 Send text files and output streams through text utilities using commands 2.4 Evaluate and apply enterprise wide operating system functions to a telecommunications application on distributed computing to create menu options
3. Manage user login environment and customisation	3.1 Manage user and group accounts to the telecommunications application on distributed computing 3.2 Change user and group profiles to allowed security access level using commands 3.3 Scan log files for activity using commands 3.4 Configure the user environment for setting user and global profiles 3.5 Record the configuration settings
4. Manage system level functions	4.1 Automate scheduling using the system 'cron' command 4.2 Critically analyse the need for backup strategy in a telecommunications network application 4.3 Plan a backup strategy to maintain redundancy of the system 4.4 Configure the system to perform scheduled backing up the file system to various media 4.5 Verify integrity of backup operations by restoring system using backup files 4.6 Configure system log files for administration and security needs 4.7 Manage a print server and print files to provide customer service 4.8 Document the configuration backup schedules and system logs
5. Complete evaluation	5.1 Produce a project evaluation report on the application of

and configuration documentation	Unix features to a given telecommunications multi-user application using distributed computing with recommendations on improvements to the system 5.2 Produce a report on the management and configuration of user applications and system level functions
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Foundation Skills

This section describes language, literacy and numeracy and employment skills incorporated in the performance criteria that are required for competent performance.

Skill	Performance Criteria	Description
Reading	1.7, 2.4, 3.3, 4.2	Evaluates and critiques ideas and information from a range of complex texts
Writing	2.4, 3.5, 4.2, 4.8, 5.1, 5.2	Generates complex written texts demonstrating sophisticated writing skills
Oral Communication	4.2, 5.1, 5.2	Presents complex and effective spoken communication in a broad range of contexts
Numeracy	1.6, 3.4, 3.5, 4.2, 4.4, 4.6	Applies a wide range of highly developed mathematical and problem solving strategies and techniques to a wide range of contexts
Get the work done	1.1-1.7, 2.1-2.4, 3.1-3.4, 4.1-4.7, 5.2	- Plans strategic priorities and outcomes within a flexible, efficient and effective context in a diverse environment exposed to competing demands - Makes high impact decisions in a complex and diverse environment, using input from a range of sources - Identifies key factors that impact on decisions and their outcomes, drawing on experience, competing priorities, and decision making strategies where appropriate - Explores and incubates new and innovative ideas through unconstrained analysis and critical thinking to develop and improve the organisations goals - Uses digital technologies to manage business operations and actively investigates new technologies for strategic and operational purposes

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalent status
ICTICT815 Manage automated ICT system applications using enterprise wide operating system	ICTITU7106B Manage automated ICT system applications using Unix	Updated to meet Standards for Training Packages. Recoded and minor changes to PC's to meet AQF requirements	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 ICTICT815 Manage automated ICT system applications using enterprise wide operating system

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Performance Evidence

Evidence of the ability to:

- manage ICT system functions using a enterprise wide operating system
- analyse system functions based on data
- produce a report on the evaluation of the system
- document recommendations for improvement

Knowledge Evidence

Evidence of the ability to:

- analyse an automated systems
- critique communication and multi user telecommunications systems
- appraise distributed computing
- appraise encoding and programming techniques
- analyse and report on network security
- describe networking infrastructure
- describe realisation of software simulation
- apply enterprise wide operating system commands.

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 -Information Technology field of work and include access to:

- a telecommunications operations site
- unix based system to manage automated functions
- special purpose tools, equipment, materials
- industry software packages.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

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