



Australian Government

ICTNWK414 Create a common gateway interface script

Release: 1

ICTNWK414 Create a common gateway interface script

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 skills and knowledge required to define and produce common gateway interface (CGI) script and install that script on a server.

It applies to individuals working in the network or web development area who are required to use CGI scripting as a common means of interacting with websites, providing security access to directories and databases.

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

Unit Sector

Networking

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. Define specification for CGI script	1.1 Determine the functionality of the CGI form 1.2 Define the functionality of the CGI script 1.3 Choose appropriate language in which to write the CGI script 1.4 Determine server requirements
2. Create CGI form and write script	2.1 Produce a hypertext markup language (HTML) web document that uses the form elements required by the CGI script specification and includes the uniform resource locator (URL) for the CGI script 2.2 Write the CGI script to function as required by the CGI

ELEMENT	PERFORMANCE CRITERIA
	script specification
3. Test CGI script	3.1 Configure the server, if required, that will host the CGI script 3.2 Upload the CGI script to the server 3.3 Run the CGI form and assess its output 3.4 Reiterate until the specification for the CGI script is met

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
Writing	1.2, 2.1, 2.2	Prepares workplace documentation that incorporates an evaluation of technical information and specialised and cohesive language in a format and style appropriate to a specific audience
Numeracy	2.1, 3.3, 3.4	Analyses numerical data to determine functionality of script
Get the work done	1.1, 1.3, 1.4, 2.1, 3.1-3.4	- Takes responsibility for planning and organising own workload, identifying ways of sequencing, prioritising and monitoring own work - Uses familiar digital systems and tools to access, organise, analyse and display information relevant to role - Understands the purposes, specific functions and key features of common digital systems and tools, and operates them effectively to complete routine tasks - Makes a range of important decisions in relatively complex situations, taking a range of constraints into account - When dealing with complex issues, may use intuition to identify the general problem area, switching to analytical processes to clarify goals

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTNWK414 Create a common gateway interface script	ICANWK414A Create a common gateway interface script	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 ICTNWK414 Create a common gateway interface script

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Performance Evidence

Evidence of the ability to:

- review the requirements
- produce common gateway interface (CGI) forms and scripts to meet the requirements
- upload scripts to a server
- test the script and rework until requirements are met.

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 and describe a scripting language suitable for CGI
- describe CGI 1.1/1.2 specifications and their functionality
- describe the security issues surrounding CGI
- outline common web servers
- outline the principles behind copyleft and Free Software Foundation
- describe copyright and intellectual property issues relating to programming.

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 network industry, and include access to:

- web servers
- an e-business website
- file transfer protocol (FTP) or file transfer client software
- server access.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

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