



Australian Government

Department of Education, Employment and Workplace Relations

ICAB4137B Produce basic client side script for dynamic web pages

Release: 1

ICAB4137B Produce basic client side script for dynamic web pages

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	<p>This unit defines the competency required to produce a number of client side scripts for dynamic web pages, utilising a range of relevant features from different appropriate languages.</p> <p>The following unit is linked and forms an appropriate cluster:</p> <ul style="list-style-type: none"> • ICAB4135B Create a simple mark up language document to specification <p>No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.</p>
------------------------	--

Application of the Unit

Application of the unit	
--------------------------------	--

Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Prerequisite units		

Employability Skills Information

Employability skills	This unit contains employability skills.
-----------------------------	--

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
---	--

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Analyse requirements for web documents	1.1. Determine the necessary dynamic functionality of the <i>web</i> document 1.2. Determine the appropriate <i>language</i> to achieve that functionality 1.3. Determine web document requirements
2. Design scripts	2.1. Design the web document and embedded scripts to achieve the required functionality
3. Produce web documents	3.1. Write simple HTML considering accessibility 3.2. Write embedded scripts
4. Test scripts and debug	4.1. Test the web document against the required functionality, and reiterate until correct 4.2. Complete <i>documentation</i> and submit to <i>appropriate person</i> for approval

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

- Basic design skills for the successful viewing of the active elements/objects across different platforms
- Debugging and error handling techniques for the successful viewing of the active elements/objects across different platforms
- Keyboard and general PC skills for operating computing packages
- Basic skills in internet protocols

Required knowledge

- Client side scripting
- Internet protocols incorporating some theoretical concepts
- Server side and client side concepts incorporating
- Types of function, particularly when creating scripts to implement functions
- Events and event handlers, particularly when creating event handlers
- Security restrictions on servers, incorporating some theoretical concepts
- SGML and associated standards
- Basic knowledge of open platforms

REQUIRED SKILLS AND KNOWLEDGE

- | |
|---|
| <ul style="list-style-type: none">• Internet operation related to servers and clients• Understanding of best practice communication, accessibility and equity principles when writing for audiences with special needs |
|---|

Evidence Guide

EVIDENCE GUIDE	
<p>The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.</p>	
Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	<p>Evidence of the following is essential:</p> <ul style="list-style-type: none"> • Assessment must confirm the ability to produce basic client server side scripts for dynamic web pages and confirm successful viewing of the active elements/objects across different platforms. <p>To demonstrate competency in this unit the person will require access to:</p> <ul style="list-style-type: none"> • Client requirements • Functionality and scope requirements • Security policy • Web server
Context of and specific resources for assessment	<p>Producing client side scripts is a common means of creating interactive websites. These scripts offer an effective simple means of enabling websites to provide greater interaction with clients.</p> <p>Client side scripting may be used for purposes such as form validation, but only in areas where they would affect only the document in question and no outside objects. The benefit is time saving, particularly as servers can become overloaded due to repeated page requests for each change on the page. It not only helps the server but is more convenient for the users.</p> <p>The assessment of this unit of competency will usually include observation of client side script code, subsequent results and performance of real or simulated work.</p> <p>The breadth, depth and complexity of knowledge and skills in this competency would cover a broad range of varied activities or application in a wider variety of contexts most of which are complex and non-routine.</p>

EVIDENCE GUIDE	
	<p>Leadership and guidance would be involved when organising activities of self and others as well as contributing to technical solutions of a non-routine or contingency nature.</p> <p>Assessment must ensure:</p> <ul style="list-style-type: none"> • Performance of a broad range of skilled applications including the requirement to evaluate and analyse current practices, develop new criteria and procedures for performing current practices and provision of some leadership and guidance to others in the application and planning of the skills would be characteristic. • Applications may involve responsibility for, and limited organisation of, others.
Method of assessment	<p>The purpose of this unit is to define the standard of performance to be achieved in the workplace. In undertaking training and assessment activities related to this unit, consideration should be given to the implementation of appropriate diversity and accessibility practices in order to accommodate people who may have special needs. Additional guidance on these and related matters is provided in ICA05 Section 1.</p> <ul style="list-style-type: none"> • Competency in this unit should be assessed using summative assessment to ensure consistency of performance in a range of contexts. This unit can be assessed either in the workplace or in a simulated environment. However, simulated activities must closely reflect the workplace to enable full demonstration of competency. • Assessment will usually include observation of real or simulated work processes and procedures and/or performance in a project context as well as questioning on underpinning knowledge and skills. The questioning of team members, supervisors, subordinates, peers and clients where appropriate may provide valuable input to the assessment process. The interdependence of units for assessment purposes may vary with the particular project or

EVIDENCE GUIDE	
	scenario.
Guidance information for assessment	<p>Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended, for example:</p> <ul style="list-style-type: none"> • ICAB4135B Create a simple mark-up language document to specification <p>An individual demonstrating this competency would be able to:</p> <ul style="list-style-type: none"> • Demonstrate understanding of a broad knowledge base incorporating some theoretical concepts • Apply solutions to a defined range of unpredictable problems • Identify and apply skill and knowledge areas to a wide variety of contexts, with depth in some areas • Identify, analyse and evaluate information from a variety of sources • Take responsibility for own outputs in relation to specified quality standards • Take limited responsibility for the quantity and quality of the output of others • Demonstrate relevant client side language coding skills • Maintain knowledge of industry products and services

Range Statement

RANGE STATEMENT	
<p>The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.</p>	
<p><i>Web document</i> may include but is not limited to:</p>	<ul style="list-style-type: none"> • saved HTML documents • previously created and new HTML documents; saved email files with or without

RANGE STATEMENT	
	attachments
<i>Accessibility</i> may be in relation to:	<ul style="list-style-type: none"> • cultural awareness • ethnicity • physical • intellectual impairments and remote locations
<i>Language</i> may include but are not limited to:	<ul style="list-style-type: none"> • Javascript • DHTML • ActiveX • VB script
<i>Documentation</i> may follow:	<ul style="list-style-type: none"> • ISO/IEC/AS standards • audit trails • naming standards • version control • project management templates • report writing protocols
<i>Appropriate person</i> may include:	<ul style="list-style-type: none"> • supervisor • teacher • authorised business representative • client

Unit Sector(s)

Unit sector	Build
--------------------	-------

Co-requisite units

Co-requisite units	

Competency field

Competency field	
------------------	--