



Australian Government

ICTWEB518 Build a document using extensible markup language

Release: 1

ICTWEB518 Build a document using extensible markup language

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 6.0.

Application

This unit describes the skills and knowledge required to design and build an extensible markup language (XML) document.

It applies to individuals who work in development roles and have highly developed technical skills in using XML documents.

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

Unit Sector

Web

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. Establish and analyse document specifications	1.1 Identify and confirm applicable legislative and organisational standards and procedures applicable to XML document development 1.2 Determine and document purpose, expectations and functionality of an XML document 1.3 Plan, design and build XML documentation, allowing for iterative development according to task requirements 1.4 Determine software and tools required to design an XML document 1.5 Identify and determine applicable design methodologies including the use of software engineering life cycle

ELEMENT	PERFORMANCE CRITERIA
2. Design and develop document	2.1 Select the document type definition (DTD) according to document specifications 2.2 Define required entities, elements and their attributes specifications 2.3 Produce XML document according to organisational requirements 2.4 Identify the DTD, required entities, elements and their attributes, including associated graphics and sounds
3. Test and finalise document	3.1 Test document offline and confirm validity of document according to document specifications 3.2 Test document online with representative audiences, where applicable 3.3 Confirm document validity and content on various browsers and devices 3.4 Analyse test results and update the XML documentation as required

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
Reading	• Analyses specifications and other documentation from a variety of sources, and consolidates information when determining requirements
Planning and organising	• Accepts responsibility for planning and sequencing complex tasks and workload • Negotiates key aspects with others, including required capabilities, efficiencies and effectiveness
Problem solving	• Applies systematic and analytical decision-making processes for complex situations and issues
Self-management	• Takes responsibility for following policies, procedures and industry standards
Technology	• Uses and investigates new digital technologies and applications • Manages and manipulates data, and communicates with others in a secure and stable digital environment

Unit Mapping Information

Supersedes and is equivalent to ICTWEB504 Build a document using extensible markup language.

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 ICTWEB518 Build a document using extensible markup language

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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:

- produce at least two (extensible markup language) XML documents according to technical requirements.

In the course of the above, the candidate must:

- test and validate XML document on at least two different browsers and at least two different devices
- comply with applicable organisational policies, procedures and standards.

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:

- extensible markup language
- unified-modelling language
- software implications for XML programming
- standards impacting XML programming
- design methodologies including software engineering life cycle
- document type definition (DTD)
- XML document components including entities, elements and their attributes
- debugging methods
- document validation and testing procedures
- organisational policies, procedures and standards applicable to building XML documents.

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:

- the client or business requirements
- an XML parser and authoring tool
- web browsers and devices
- hardware, software and tools required to use extensible markup language.

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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