



Australian Government

Department of Education, Employment and Workplace Relations

ICAB5179B Build decks using wireless mark-up language

Release: 1

ICAB5179B Build decks using wireless mark-up language

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	<p>This unit defines the competency required to create wireless markup language (WML) decks.</p> <p>No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.</p>
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Application of the Unit

Application of the unit	
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Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Prerequisite units		

Employability Skills Information

Employability skills	This unit contains employability skills.
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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.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Design WML deck	1.1. Analyse existing HTML page design and identify information to be accessible via hand-held device 1.2. Design deck logical structure, ensuring that deck size is kept within acceptable boundaries 1.3. Determine structure of content based on business needs and user requirements 1.4. Identify links between sets of cards 1.5. Design cards for user input or for the selection of more than one item
2. Create deck	2.1. Code each card in the deck, ensuring each card has an ID and a title 2.2. Create cards using language and practices compliant with the international WML standard 2.3. Use best practice coding standards in creating the deck 2.4. Avoid device-specific features in creating the deck
3. Test deck	3.1. Test deck on multiple devices to ensure compatibility with as many hand-held devices as possible 3.2. Validate wireless mark-up language files by typing and submitting the uniform resource locator of the wireless mark-up language file or the wireless mark-up language validator 3.3. Ensure the <go> and <prev> tasks selects the correct card in the deck 3.4. Ensure the tested wireless mark-up language files meets the needs of the business client

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

- WWW, HTML and building web pages
- JavaScript

REQUIRED SKILLS AND KNOWLEDGE

- XML

Required knowledge

- WAP and application communication protocols
- Internet standards and TCP/IP
- XML 1.0 standard
- WMLScript specification
- WMLScript
- XML applications
- The five layer protocol stack of TCP/IP
- Wireless application environment
- Wireless session protocol
- Wireless transaction protocol
- Wireless transport layer security
- Wireless datagram protocol
- Australian Computer Society Code of Ethics

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 create WML files that meet the business clients need. <p>To demonstrate competency in this unit the person will require access to:</p> <ul style="list-style-type: none"> XML parser WML valuator
Context of and specific resources for assessment	<p>The breadth, depth and complexity covering planning and initiation of alternative approaches to skills or knowledge applications across a broad range of technical and/or management requirements, evaluation and coordination would be characteristic.</p> <p>Assessment must ensure:</p> <ul style="list-style-type: none"> The demonstration of competency may also require self-directed application of knowledge and skills, with substantial depth in some areas where judgement is required in planning and selecting appropriate equipment, services and techniques for self and others. Applications involve participation in development of strategic initiatives as well as personal responsibility and autonomy in performing complex technical operations or organising others. It may include participation in teams including teams concerned with planning and evaluation functions. Group or team coordination may also be involved.
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</p>

EVIDENCE GUIDE	
	<p>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 scenario.
<p>Guidance information for assessment</p>	<p>Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.</p> <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 theoretical concepts, with substantial depth in some areas • Analyse and plan approaches to technical problems or management requirements • Transfer and apply theoretical concepts and/or technical or creative skills to a range of situations • Evaluate information, using it to forecast for planning or research purposes • Take responsibility for own outputs in relation to broad quantity and quality parameters • Take some responsibility for the achievement of group outcomes • Maintain knowledge of industry products and

EVIDENCE GUIDE

	<p>services</p> <p>Additionally, an individual demonstrating this competency would be able to:</p> <ul style="list-style-type: none"> • Demonstrate understanding of wireless mark-up language • Apply solutions to problems related to wireless mark-up language
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Range Statement**RANGE STATEMENT**

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.

Code card elements may contain:

- Card elements may contain text, mark-up language, links, input fields, tasks and images

WML standard may include:

- WAP specification 1.1 or later
- WAP architecture specification - WAP-100, Wireless application protocol architecture specification
- WAP specification suite
- WAP-190 Wireless application environment specification
- WAP-191 Wireless mark-up language specification
- WAP-192 Binary XML content format specification
- WAP-193 WMLScript language specification
- WAP-194 WMLScript standard libraries specification
- WAP-120 WAP caching model specification
- WAP-175 WAP cache operation specification
- WAP-174 User agent profiling specification

RANGE STATEMENT	
	The above are examples of some industry-wide WAP specifications, the complete range and new additions can be found at www.wapforum.org/what/technical.htm
Client may include but is not limited to:	<ul style="list-style-type: none"> • internal departments • external organisations • clubs • individual people • internal employees

Unit Sector(s)

Unit sector	Build
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Co-requisite units

Co-requisite units	

Competency field

Competency field	
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