

2. Resource implications	The following resources should be provided: 2.1 Appropriately simulated environment where assessment can take place. 2.2 Access to relevant work environment 2.3 Resources relevant to the proposed activities or tasks
3. Methods of assessment	Competency may be assessed through: 3.1 Practical 3.2 Projects 3.3 Third Party Reports 3.4 Portfolio of evidence 3.5 Written tests
4. Context of assessment	Competency may be assessed in a workplace or in a simulated workplace
5. Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace job role is recommended.

DEVELOP WEBSITE APPLICATION

ISCED UNIT CODE: 0613 551 03A

TVET CDACC CODE: IT/OS/ICTA/CR/01/6/MA

UNIT DESCRIPTION

This unit covers the competencies required to develop back-end website application. It involves performing website user need analysis, designing website, developing the website, testing the website, hosting the website and maintaining the website.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
These describe the key outcomes which make up workplace functions	These are assessable statements which specify the required level of performance for each of the elements <i>(Bold and italicized terms are elaborated in the range)</i>
1. Perform website Application user need analysis	1.1 Website user requirements are identified as per the user needs. 1.2 Website user requirements specifications process is documented as per the user needs. 1.3 Website user requirement specifications are reviewed as per user need report.
2. Design website application	2.1 <i>Website application design tools</i> are selected as per user needs. 2.2 <i>Website application design methods</i> are implemented as per the user needs. 2.3 <i>Website application visual hierarchy</i> is developed as per the user needs. 2.4 Website application site map is created as per the user needs.
3. Develop website application	3.1 Front-end web pages are created as per website application design.

ELEMENT	PERFORMANCE CRITERIA
These describe the key outcomes which make up workplace functions	These are assessable statements which specify the required level of performance for each of the elements <i>(Bold and italicized terms are elaborated in the range)</i>
	3.2 Website backend is created as per website application design. 3.3 Website application is integrated to the backend as per workplace procedure.
4. Host the website application	4.1 Website application hosting platform is selected as per host requirements. 4.2 Server environment is setup as per host requirements. 4.3 Website application files are uploaded as per host requirements. 4.4 Website server is configured as per host requirements.
5. Test the website application	5.1 Website application test plan is developed as per the workplace procedures. 5.2 <i>Website application testing techniques</i> are selected as per the workplace procedures. 5.3 Website application is tested as per workplace procedures. 5.4 Test report is developed as per workplace procedures.
6. Maintain the website application.	6.1 Website is monitored as per workplace procedures. 6.2 Monitoring report is developed as per workplace procedures. 6.3 Website application bugs are fixed as per monitoring report. 6.4 Website application is updated as per the workplace procedures. 6.5 Website is backed up in accordance with workplace procedures.

RANGE

This section provides work environment and conditions to which the performance criteria apply. It allows for different work environment and situations that will affect performance.

Variable	Range
1. Website application design tools may include but are not limited to:	• Figma • WordPress • Wix • Adobe Dreamweaver
2. Website application design methods may include but are not limited to:	• User-Centered Design • Visual Design • Interaction Design • Wireframing and Prototyping
3. Website application visual hierarchy may include but are not limited to:	• Graphical user interface • Hierarchy of Elements • Typography • Color • Spacing and Layout
4. Website application testing techniques may include but are not limited to:	• Functionality • Black box • Regression • unit

REQUIRED KNOWLEDGE AND SKILLS

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

Required Knowledge

The individual needs to demonstrate knowledge of:

- Documentation processes
- Computer and devices settings
- Technology trends in develop website systems