



Australian Government

UEECS0018 Develop web pages for engineering applications

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the UEE Electrotechnology Training Package.

Application

This unit involves the skills and knowledge required to develop web pages for engineering applications.

It includes working safely, developing web pages using authoring tools, client-side scripting, fundamental server-side scripting and documenting development activities.

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

Pre-requisite Unit

Not applicable

Competency Field

Computer Systems

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to develop web pages for engineering applications

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

1.1 Work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures for a given work area are identified, obtained and applied

- 1.2 Scope of development work is determined from page development specifications and in consultation with relevant person/s
 - 1.3 Activities are planned in accordance with workplace procedures for timelines and in consultation with others involved
 - 1.4 Relevant development tools and software are selected in accordance with development requirements and relevant industry standards
 - 1.5 Strategies are implemented to ensure development work is in accordance with workplace procedures
- 2 Develop web pages for engineering applications**
- 2.1 Syntax functions and features of mark-up language scripts are applied to developing client-side programming in accordance with development requirements and workplace procedures
 - 2.2 Pages are created and rendered with relative and absolute links, images and table formatting in accordance with development requirements and workplace procedures
 - 2.3 Forms are created with relevant elements and element groupings in accordance with development requirements and workplace procedures
 - 2.4 Server scripting languages are applied to scripting to developing client-side programming and validations in accordance with development requirements and workplace procedures
 - 2.5 Unplanned events are analysed to provide effective solutions in accordance with workplace procedures
 - 2.6 Quality of work is monitored in accordance with workplace procedures and relevant industry standards
- 3 Test, evaluate, implement and document developed web pages**
- 3.1 Tests and workplace procedures are developed to evaluate web page programming in accordance with development requirements
 - 3.2 Problems and bugs in web page programming are identified and rectified in accordance with development requirements
 - 3.3 Intermediate and final work reports are completed in

accordance with relevant industry standards and presented to relevant person/s

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the UEE Electrotechnology Training Package Companion Volume Implementation Guide.

Developing, implementing and testing hypertext mark-up language (HTML) pages must include at least four of the following features:

- relative and absolute links, images and table formatting
- cascaded styles sheets
- forms
- new browser windows
- validation of form data.
- form data input response
- form data processing
- database access
- output of database table contents
- insertion of table data to database.

Developing, implementing and testing of server scripting for database access must include at least four of the following features:

Unit Mapping Information

This unit replaces and is equivalent to UEENEED129A Develop web pages for engineering applications.

Links

Companion Volume implementation guides are found in VETNet - -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6>