



Australian Government

UEECS0031 Set up, create and implement content for a web server

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 set up, create and implement content for a web server.

It includes working safely, installing and administering server software and databases, server scripting, configuring access and security, and documenting work activities.

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

Pre-requisite Unit

UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

Competency Field

Computer Systems

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to develop and implement web-based server

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) processes and workplace procedures for a given work area are identified, obtained and applied
- 1.2** WHS/OHS risk control measures and workplace procedures are followed in preparation for the work

- 1.3 Development work is determined from server performance specifications and in consultation with relevant person/s
 - 1.4 Activities are planned to meet scheduled timelines in consultation with others involved in work
 - 1.5 Development tools, testing devices and software are selected on specified requirements in accordance with relevant industry standards and workplace procedures
 - 1.6 Strategies are implemented to ensure development work is carried out in accordance with workplace procedures
- 2 **Develop web services**
 - 2.1 WHS/OHS risk control measures and workplace procedures for carrying out the work are followed
 - 2.2 Server software is installed and configured to functionality and security in accordance with workplace procedures and specifications
 - 2.3 Syntax functions and features of mark-up language scripts are applied to developing client-side programming in accordance with workplace procedures and specifications
 - 2.4 Pages are created, rendered with relative and absolute links, images and table formatting using cascaded styles sheets in accordance with workplace procedures and specifications
 - 2.5 Forms are created with a variety of relevant elements and element groupings in accordance with workplace procedures and specifications
 - 2.6 Server scripting languages are applied to developing client-side programming and validated in accordance with workplace procedures and specifications
 - 2.7 Written scripts are interpreted for web functionality and management of relation databases in accordance with workplace procedures and specifications
 - 2.8 Written scripts are interpreted for web functionality and management of browser windows, security, web application deployment and administration consoles in accordance with workplace procedures and specifications

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| | 2.9 | Solutions are integrated in accordance with server performance specifications |
| | 2.10 | Approaches to issues/problems are analysed to provide effective solutions in accordance with workplace procedures |
| | 2.11 | Quality of work is monitored in accordance with workplace procedures and relevant industry standards |
| 3 Test, evaluate, implement and complete documentation | 3.1 | Testing and workplace procedures are developed to evaluate client-side programming and web applications and services |
| | 3.2 | Problems in client-side programming and web service functionality are identified and rectified in accordance with workplace procedures and server performance |
| | 3.3 | Intermediate and final work reports are written 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:

- 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:

- installation and administration of key features of web and web application servers

Unit Mapping Information

This unit replaces and is equivalent to UEENEED110A Set up, create and implement content for a web server.

Links

Companion Volume implementation guides are found in VETNet - -

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