



Australian Government

UEECS0020 Evaluate and modify object-oriented code programs

Release: 1

UEECS0020 Evaluate and modify object-oriented code programs

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 evaluate and modify object-oriented code programs.

It includes applying safe working practices, following work instructions and workplace procedures, applying object-oriented code scripting, and testing and documenting outcomes.

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 evaluate and modify programs in object-oriented code

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 program modification work is determined from job performance specification and/or in consultation

	with relevant person/s
	1.3 Activities are planned in accordance with workplace procedures for timelines and consultation with others involved
	1.4 Relevant development kit and software are selected in accordance with job specifications and relevant industry standards
	1.5 Strategies are implemented to ensure programming is in accordance with workplace procedures
2 Evaluate and modify programs in object-oriented code	2.1 Functions are applied to object-oriented programming in accordance with job specifications and workplace procedures
	2.2 Syntax is applied to evaluating and modifying programs in accordance with job specifications and workplace procedures
	2.3 Key features of the object-orientated programming language are applied to evaluation and modification in accordance with job specifications and workplace procedures
	2.4 Unplanned events are analysed to provide effective solutions in accordance with workplace procedures
	2.5 Quality of work is monitored in accordance with workplace procedures and/or relevant industry standards
3 Test and document modified programs	3.1 Procedures are developed to test modified programming in accordance with job specifications and workplace procedures
	3.2 Problems and bugs in code are rectified in accordance with job specifications and workplace procedures
	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.

Unit Mapping Information

This unit replaces and is equivalent to UEENEED103A Evaluate and modify object oriented code programs.

Links

Companion Volume implementation guides are found in VETNet - -

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

Assessment Requirements for UEECS0020 Evaluate and modify object-oriented code programs

Modification History

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least two separate occasions and include:

- applying computer functions to object-oriented programming
- applying relevant work health and safety (WHS)/occupational health and safety (WHS/OHS) requirements
- applying syntax to evaluating and modifying programs
- dealing with unplanned events
- developing testing procedures
- evaluating and modifying programs in object-oriented code
- identifying problem and bugs in code
- rectifying problem and bugs in code
- selecting relevant development kit and software
- testing and documenting modified programs in object-oriented code
- using key features of object-oriented programming to evaluate and modify program.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- object-oriented programming language elements
- object-oriented programming language operators and control structure
- problem-solving techniques
- relevant development kit and software currently used in industry
- relevant industry standards
- relevant specifications
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace instructions, quality, policies and procedures.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in suitable workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated suitable workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or simulations
- relevant and appropriate materials, tools, facilities and equipment currently used in industry
- resources that reflect current industry practices in relation to evaluating and modifying programs written in object-oriented code
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

Companion Volume implementation guides are found in VETNet - -

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