



Australian Government

UEECD0053 Write specifications for computer systems engineering projects

Release: 1

UEECD0053 Write specifications for computer systems engineering projects

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 write specifications for computer systems engineering projects.

It includes preparing specifications to meet client expectations, consulting with relevant person/s and/or information sources, and documenting design with approval of relevant person/s.

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

Pre-requisite Unit

Not applicable.

Competency Field

Cross Discipline

Unit Sector

Electrotechnology

Elements and Performance Criteria

PERFORMANCE CRITERIA	
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1 Prepare specification requirements	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 Techniques for specification writing are reviewed and

	applied in accordance with workplace procedures
	1.3 Scope of the specification is determined using formal evaluation/survey processes
	1.4 Criteria from related works impacting specification are determined from relevant documentation, site visits and/or discussions with relevant person/s
2 Write specification	2.1 Specification is developed with scenarios/requirements in consultation with relevant person/s and in accordance with relevant industry standards
	2.2 Specification is developed in collaboration with relevant design professionals and contractors involved in the project
	2.3 Relevant person/s required for the project is identified and their roles specified in accordance with specification scope
	2.4 Specification is reviewed in accordance with specification scope inputs and adjusted to rectify anomalies
	2.5 Specification is developed in accordance with workplace procedures
3 Obtain approval of specification	3.1 Specification is presented and discussed with relevant person/s
	3.2 Alterations to the specification resulting from the discussion are negotiated with relevant person/s in accordance with workplace procedures
	3.3 Specification is finalised and approval obtained from 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 specifications for medium-sized computer systems engineering project must include all the following attributes:

- safety requirements met
- client expectations established
- cost-effective solutions pursued and assured
- design and technical requirements documented

Unit Mapping Information

This unit replaces and is equivalent to UEENEEE070B Write specifications for computer systems engineering projects.

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 UEECD0053 Write specifications for computer systems engineering projects

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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, performance criteria and range of conditions on at least two separate occasions and include:

- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including using risk control measures
- determining scope and parameters of the specification
- determining the impact of related works
- developing specification in accordance with workplace procedures
- developing specification with scenarios and requirements
- identifying competencies required for the specification
- negotiating alterations to the proposed specification successfully
- obtaining approval of the final specification
- preparing specification requirements
- reviewing specifications in accordance with specification scope inputs and adjusted to rectify anomalies
- writing specifications.

Knowledge Evidence

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

- computer systems engineering specifications
- computers functions
- relevant industry documentation
- relevant manufacturer specifications
- relevant job safety assessments or risk mitigation processes
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace policies and procedures
- specification writing techniques.

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 and currently used in industry
- resources that reflect current industry practices in relation to writing specifications for computer systems engineering projects
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

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