Australian Government

UEECD0014 Develop design briefs for electrotechnology projects

Release: 1

UEECD0014 Develop design briefs for electrotechnology 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 develop design briefs for electrotechnology projects.

It includes preparing and developing project design briefs. It also includes obtaining approval of designs.

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

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1 Prepare to develop project design briefs	**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 Techniques for project planning are reviewed and applied in accordance with workplace procedures

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	1.3	Project is evaluated and parameters determined using a formal evaluation/survey in accordance with workplace procedures
	1.4	Relevant person/s is consulted and/or site visits conducted to identify other works impacting on project
	1.5	Project budget is determined by deliverables and quality in accordance with workplace procedures and project parameters
2 Develop design proposal	**2.1**	Project design brief is developed with scenarios/requirements in consultation with relevant person/s and in accordance with relevant industry standards
	2.2	Project design brief is developed in collaboration with relevant design professional/s and/or contractor/s involved in the project
	2.3	Relevant person/s required for the project is identified and their role/s specified in the project design brief
	2.4	Project design brief is reviewed against inputs and adjusted to rectify any anomalies
	2.5	Project design brief proposal is documented in accordance with workplace procedures
3 Obtain approval for project design briefs	**3.1**	Project design brief is presented and discussed with relevant person/s
	3.2	Alterations to the project design brief resulting from the presentation/discussion are negotiated with relevant person/s in accordance with workplace procedures
	3.3	Final project design brief is documented 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

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environment.

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

Developing requirements to be incorporated into the design of electrotechnology projects must include at least the following:

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

Unit Mapping Information

This unit replaces and is equivalent to UEENEEE015B Develop design briefs for electrotechnology projects.

Links

Companion Volume implementation guides are found in VETNet - - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6

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Assessment Requirements for UEECD0014 Develop design briefs for electrotechnology 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
- dealing with unplanned events in accordance with problem-solving techniques and workplace procedures
- determining the impact of other related works
- developing project design brief incorporating scenarios and all requirements
- documenting project plan proposal
- establishing the scope and parameters of the project
- identifying competencies required for the project
- negotiating alterations to the proposed project design brief successfully
- obtaining approval of the final brief.

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:

- problem-solving techniques
- purpose of critical path analysis
- purpose of customer relations
- relevant industry standards
- relevant job safety assessments or risk mitigation processes
- relevant manufacturer specifications
- relevant project parameters and budget requirements
- relevant scenarios/requirements
- relevant techniques for project planning
- relevant WHS/OHS legislated requirements

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- relevant workplace documentation, including
  - project design brief proposal
- relevant workplace quality, instructions, 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, facilities, tools, equipment and personal protective equipment (PPE) currently used in industry
- resources that reflect current industry practices in relation to developing project design briefs for electrotechnology projects
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

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