



Australian Government

UEECD0029 Plan electrotechnology projects

Release: 1

UEECD0029 Plan 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 plan an electrotechnology project.

It includes determining, developing and obtaining approval for an electrotechnology project plan. It also includes establishing budgets, critical path analysis, developing workflow strategies and documenting the plan.

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

Elements describe the essential outcomes.

1 Determine an electrotechnology project

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) procedures for relevant work area are identified and applied
- 1.2** Techniques for project planning are reviewed and adopted in accordance with workplace policies and procedures

	1.3	Scope of the project is determined from design brief, specifications and/or other relevant documentation and discussions with appropriate person/s
2 Develop project plan proposal	2.1	Plant, material, labour and other cost estimations are sought and obtained from appropriate person/s in accordance with workplace policies and procedures
	2.2	Project budget is determined from plant, material labour and other cost estimations in accordance with workplace policies and procedures
	2.3	Critical path analysis is applied to developing workflow strategies
	2.4	Sources and availability of materials and human resources required for the project are determined in accordance with workplace policies and procedures
	2.5	Risk management strategies are identified, assessed and applied in the project plan
	2.6	Project plan is reviewed against all inputs and adjusted to rectify any anomalies
	2.7	Project plan proposal is documented in accordance with workplace procedures
3 Obtain approval for project plan	3.1	Project plan is presented and discussed with appropriate person/s
	3.2	Alterations to the project plan resulting from presentation/discussion are negotiated with appropriate person/s in accordance with workplace policies and procedures
	3.3	Final project plan is documented and approval obtained from appropriate 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.

Planning an electrotechnology project must include at least one of the following disciplines:

- automation technologies
- computers
- data communications
- electrical
- electrical machines
- electronics
- fire protection
- instrumentation
- refrigeration and air conditioning
- renewable/sustainable energy
- security technology
- one hundred thousand Australian dollars (\$AUD100,000)

Electrotechnology project cost must exceed:

Unit Mapping Information

This unit replaces and is equivalent to UEENEEE013B Plan electrotechnology 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 UEECD0029 Plan 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 one occasion and include:

- determining the project requirements accurately
- establishing a project budget
- developing effective workflow strategies
- documenting project plan proposal
- negotiating alterations to the proposed project plan successfully
- obtaining approval of the final plan
- dealing with unplanned events
- accessing, interpreting and applying workplace policies and procedures
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures and practices, including the use of risk control measures
- identifying and applying project risk management strategies
- planning electrotechnology projects.

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:

- electrotechnology project planning and critical path analysis, including:
 - purpose of project planning
 - documents needed to plan a project
 - factors influencing sequence and restraints of project activities
 - critical path analysis encompassing:
 - graphical representation methods
 - methods of representing time/rates
 - purpose of critical path analysis
 - essential data

- relational sequence of work activities
- graphical representation methods
- methods of representing time/rates
- monitoring methods
- project risk management strategies
- relevant manufacturer specifications
- relevant WHS/OHS legislated requirements
- relevant workplace 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 suitable simulated 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 other simulations
- relevant and appropriate materials, tools, equipment and facilities currently used in industry
- resources that reflect current industry practices in relation to planning electrotechnology projects
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

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