



Australian Government

UEEEEC0047 Plan large electronic projects

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 plan large electronic projects.

It includes developing and documenting electronics project proposals, milestones and completions. It also includes establishing budgets; applying critical path analysis; developing workflow strategies; and documenting, presenting and negotiating budgets and timelines.

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

Pre-requisite Unit

Not applicable

Competency Field

Electronics and Communications

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Identify electronic project requirements

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 and applied
- 1.2** Techniques for electronic project planning are reviewed are adopted in accordance with workplace procedures

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|----------|---|--|
| | 1.3 | Extent of the electronic project is determined from design brief specifications and/or other relevant documentation and from discussions with appropriate person/s |
| 2 | Develop electronic project plan proposal | |
| | 2.1 | Plant, material, labour and relevant costs are sought and obtained from relevant person/s in accordance with workplace policies and procedures |
| | 2.2 | Project budget is determined from estimated plant, material, labour and other costs in accordance with workplace policies and procedures |
| | 2.3 | Critical path analysis is applied to developing workflow strategies |
| | 2.4 | Sources and availability of physical materials and human resources needed for the project are determined in accordance with workplace policies and procedures |
| | 2.5 | Risk management strategies are sought and applied in the project plan |
| | 2.6 | Project plan is reviewed in accordance with all inputs and adjusted to rectify any anomalies |
| | 2.7 | Project plan proposal is documented in accordance with workplace policies and procedures |
| 3 | Obtain approval for project plan | |
| | 3.1 | Project plan is presented and discussed with relevant person/s |
| | 3.2 | Alterations to project plan resulting from the presentation/discussion are negotiated with relevant person/s in accordance with constraints of workplace policies |
| | 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 industry-accepted medium-sized electronic project must include at least the following attributes:

- budgets and timelines
- critical path analysis
- documentation
- plan presentation
- workflow strategies development

Unit Mapping Information

This unit replaces and is equivalent to UEENEEH160A Plan large electronic 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 UEEEC0047 Plan large electronic projects

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, 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
- apply sustainable energy principles and practices
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including using of risk control measures.

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:

- large electronic project planning, 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
- customer/client relations, including:
 - purpose of critical path analysis
 - essential data
 - relational sequence of work activities

- graphical representation methods
- methods of representing time/rates
- monitoring methods
- electronic industry sector customs and practices, including:
 - technical aspects of project planning and management encompassing:
 - method of ensuring equipment meets specified performance requirements
 - performance/cost-benefit analysis
 - equipment procurement
 - typical approaches to planning and management
 - successful planning techniques
 - best practice management methods and styles
- WHS/OHS enterprise responsibilities, including:
 - provisions of relevant WHS/OHS legislation
 - principles and practice of effective WHS/OHS management
 - management arrangements relating to regulatory compliance
 - enterprise hazards and risks, control measures and relevant expertise required
 - characteristics and composition of workforce and their impact on WHS/OHS management
 - relevance of enterprise management systems to WHS/OHS management
 - analysis of working environment and design of appropriate WHS/OHS management systems
 - analysis of relevant data and evaluation of WHS/OHS system effectiveness
 - assess resources to establish and maintain WHS/OHS management systems
 - relevant risk mitigation processes
 - 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 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, equipment and personal protective equipment (PPE) currently used in industry
- resources that reflect current industry practices in relation to planning electronic projects
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

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