



Australian Government

UEERE0044 Plan renewable energy (RE) projects

Release: 1

UEERE0044 Plan renewable energy (RE) 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 a renewable energy (RE) project.

It includes preparing to plan a project, developing a RE project plan proposal and obtaining approval for a project plan.

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

Pre-requisite Unit

Not applicable

Competency Field

Renewable Energy

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to plan 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) processes and procedures for relevant work area are identified, interpreted and applied in accordance with workplace procedures |
| 1.2 | Relevant techniques for project planning are reviewed and applied in accordance with workplace policies |

	1.3	Scope of the project is determined from design brief specification and/or other relevant documentation and discussions with relevant person/s
2 Develop RE project plan proposal	2.1	Estimated plant, material, labour and other costs are obtained from relevant person/s in accordance with workplace policies and procedures
	2.2	Project budget is established 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 materials and human resources for the project are identified in accordance with workplace policies and procedures
	2.5	Risk management strategies are identified, obtained 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 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 the project plan resulting from the presentation/discussion are negotiated with relevant person/s within constraints of workplace policies
	3.3	Final project plan 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 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 UEENEEK122A Plan renewable energy (RE) 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 UEERE0044 Plan renewable energy (RE) projects

Modification History

Release 1. This is the first release of this unit of competency in the UEE Electrotechnology Training Package.

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 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
- 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
- determining and applying relevant risk management strategies
- determining and sourcing material, equipment and human resource requirements
- determining project scope
- planning a medium-sized renewable energy (RE) industry project plan.

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:

- RE project planning, including
 - project planning encompassing:
 - purpose of project planning
 - documents needed to plan a project
 - factors influencing sequence and restraints of project activities
 - critical path project analysis encompassing:
 - purpose of critical path analysis
 - essential data
 - relational sequence of work activities

- graphical representation methods
- methods of representing time/rates
- monitoring methods
- RE industry sector customs and practices encompassing:
 - technical aspects of project planning and management:
 - 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 and enterprise responsibilities encompassing:
 - 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
 - assessment of resources to establish and maintain WHS/OHS management systems
- human and physical resource management concepts
- relevant job safety assessments or risk mitigation processes
- relevant manufacturer specifications
- relevant workplace documentation
- 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 personal protective equipment (PPE) currently used in industry
- resources that reflect current industry practices in relation to planning RE projects
- 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>