

## UEERE0042Y Manage renewable energy (RE) projects

### Modification History

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

This unit replaces and is not equivalent to UEERE0042 Manage renewable energy (RE) projects. Modifications include:

- Significant amendments made to Elements and Performance Criteria
- Range of conditions updated
- Updates to performance and knowledge evidence requirements and CVIG content developed.

### Application

This unit involves the skills and knowledge required to manage renewable energy (RE) projects. It includes determining the scope of the project, managing the project and completing the project.

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.

#### PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

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|--|---|
| <b>1 Determine scope of the RE project</b> | <p><b>1.1</b> Project scope, deliverables and budget are identified from project planning and other relevant documentation and consultation with relevant person/s</p> <p><b>1.2</b> Appropriate project management tools, and relevant standard enterprise project management processes/techniques are identified</p> <p><b>1.3</b> Relevant work health and safety (WHS)/occupational health and safety (OHS) processes and procedures are identified and implemented</p> <p><b>1.4</b> Measurable outcomes that will apply across the life of the project are identified from project planning and other relevant documentation</p> <p><b>1.5</b> Plant, materials and skills required to achieve project outcome/s are identified from project planning and other relevant documentation</p> <p><b>1.6</b> Stakeholders that will be impacted and involved are identified and engaged</p> <p><b>1.7</b> Processes and procedures are developed for managing contract variations from discussions with relevant person/s and in accordance with contractual agreement</p> <p><b>1.8</b> Sustainable practices to achieve sustainable outcomes in all facets of project work are identified and implemented</p> |
| <b>2 Manage RE project</b>                 | <p><b>2.1</b> WHS/OHS policies, procedures and programs are implemented and monitored</p> <p><b>2.2</b> Project risks are identified and strategies implemented to ensure outcomes achieved are in accordance with quality standards specified in the project plan and/or contract, safety requirements and workplace policies and procedures</p> <p><b>2.3</b> Equipment and personnel are coordinated, in accordance with project plan and requirements to achieve planned project outcomes</p> <p><b>2.4</b> Procurement processes and procedures are monitored to ensure on-time supply of plant and materials and in accordance with project plan and budget</p>   |

- |                              |            |   |
|------------------------------|------------|---|
|                              | <b>2.5</b> | Project progress is monitored against schedule, quality requirements and budget   |
|                              | <b>2.6</b> | Variations are managed in accordance with agreed processes and in accordance with the contract                                      |
|                              | <b>2.7</b> | Project records are maintained and progress reports written and provided to relevant person/s                                       |
| <b>3 Complete RE project</b> | <b>3.1</b> | Project outcomes are reviewed against original measures, implemented risk strategies, contract variations, safety record and budget |
|                              | <b>3.2</b> | Project completion acceptance is sought from appropriate person/s and handover documented in accordance with workplace policies     |

## 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.

RE project must include:

- engagement and management of multiple internal and external stakeholders
- involve multiple:
  - technologies, or
  - solution elements, or
  - sites

## Unit Mapping Information

This unit replaces and is not equivalent to UEERE0042 Manage renewable energy (RE) projects.

## Links

UEE - Electrotechnology Training Package Companion Volume Implementation Guide at:  
[sector webpage link here]

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## **Assessment Requirements for UEERE0042Y Manage renewable energy (RE) 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 occasions and include:

- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures and practices
- developing and applying relevant hazard identification, risk assessment, relevant control measures and reporting
- establishing the scope of the project accurately
- ascertaining the input of a project
- developing effective management processes
- managing resources and variations effectively
- adopting risk management strategies
- maintaining records and submitting progress reports
- meeting project outcomes
- completing and handing over project.

### **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 the following. The UEE Training Package Companion Volume Implementation Guide (CVIG) includes additional advice in Knowledge items which may assist with implementation.

- RE project management including:
  - defining project parameters

- time management
- financial management
- quality management
- human resource management
- stakeholder engagement
- communication management
- risk management and contingencies
- procurement management
- physical resource management
- contracts
- performance assessment and continuous improvement
- engineering ethics principles
- customer/client relations including:
  - importance of customer/client relations
  - interpersonal skills that enhance customer/client
  - dispute resolution
  - customer/client relations strategies
  - managing expectations
  - managing and resolving conflict
- RE industry sector customs and practices including:
  - 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
- 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 and equipment currently used in industry
- resources that reflect current industry practices in relation to managing RE projects
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

## Links

UEE - Electrotechnology Training Package Companion Volume Implementation Guide at:  
[sector webpage link here]

## Companion Volume Implementation Guide (CVIG) content

project parameters may include:

- project scope
- project stakeholders and clients
- project phases and the relationship between phases
- time requirements and limitations
- resource requirements and limitations
- quality requirements and limitations

time management may include:

- time-management concepts
- standard practices for ensuring a project runs to time

financial management may include:

- financial management concepts
- standard practices for managing project finances
- project budget, costs, variations and estimations
- invoicing against project phases/deliverables
- and acquittals

quality management may include:

- quality management concepts
- standard practices for managing quality within a project

human resource management may include:

- human resource management concepts
- standard practices for managing personnel within a project

stakeholder engagement may include:

- Customers
- Suppliers
- land holders
- authorities
- sub contractors

communication management may include:

- communication management concepts
- standard practices for managing communication within a project

risk management and contingencies may include:

- risk management concepts
- standard practices for managing risk within a project
- internal risks
- external risks
- risk minimisation
- risk removal
- contingencies



procurement management  
may include:

- procurement management concepts
- standard practices for managing procurement

physical resource  
management may include:

- types of physical resources including:
  - equipment
  - technology
  - information
  - facilities
- physical resource management concepts
- standard practices for managing physical resources

Contracts may include:

- understanding project contracts
- standard practices for working to contract specifications
- contract format
- contract content
- legal obligations of contract parties and accompanying documentation
- including contract schedules

performance assessment and  
continuous improvement may  
include:

- standard performance assessment practices
- standard continuous improvement practices

WHS/OHS and enterprise  
responsibilities may include:

- provisions of relevant WHS/OHS legislation
- principles and practices 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