



Australian Government

UEERE0042 Manage renewable energy (RE) projects

Release: 1

UEERE0042 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.

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.

1 Determine scope of the RE 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** Project deliverables and budget are identified from project planning and other relevant documentation and discussions with appropriate person/s
- 1.3** Measurable outcomes are identified from project

- planning and other relevant documentation to evaluate the project on completion
- 1.4** Plant, materials and skills required to achieve project outcome/s are identified from project planning and other relevant documentation
 - 1.5** Processes and procedures are developed for managing contract variations from discussions with relevant person/s and in accordance with contractual agreement
- 2 Manage RE project**
- 2.1** WHS/OHS policies, procedures and programs are implemented and monitored
 - 2.2** Project tasks/outcomes are delegated to project personnel with required competence
 - 2.3** Project risks are identified and strategies implemented to ensure outcomes achieved are in accordance with quality standards specified in the contract, safety requirements and workplace policies and procedures
 - 2.4** Procurement processes and procedures are monitored to ensure on-time supply of plant and materials and in accordance with workplace policies
 - 2.5** Project progress is monitored against schedule, quality requirements and budget
 - 2.6** Conflicts at worksite and between stakeholders, clients and regulators are identified and managed in accordance with workplace policies
 - 2.7** Variations are managed in accordance with agreed processes and in accordance with the contract
 - 2.8** Project records are maintained and progress reports written and provided to relevant person/s
- 3 Complete RE project**
- 3.1** Project outcomes are reviewed against original plan, implemented risk strategies, contract variations, safety record and budget
 - 3.2** 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.

Managing a RE project must include:

- an industry accepted medium-sized RE project

Unit Mapping Information

This unit replaces and is equivalent to UEENEEK121A Manage 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 UEERE0042 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 one occasion and include:

- establishing the scope of the project accurately
- ascertaining the input of a project
- developing effective management processes
- managing resources and variations effectively
- resolving conflicts
- adopting risk management strategies
- maintaining records and submitting progress reports
- meeting project outcomes
- 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
- completing and handing over project
- developing and applying relevant hazard identification, risk assessment, relevant control measures and reporting.
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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:

- renewable energy (RE) project management, including:
 - project management encompassing:
 - defining project parameters: 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: time-management concepts and standard practices for ensuring a

- project runs to time
- financial management: financial management concepts; standard practices for managing project finances; project budget, costs, variations and estimations; invoicing against project phases/deliverables; and acquittals
 - quality management: quality management concepts and standard practices for managing quality within a project
 - human resource management: human resource management concepts and standard practices for managing personnel within a project
 - communication management: communication management concepts and standard practices for managing communication within a project
 - risk management and contingencies: risk management concepts, standard practices for managing risk within a project, internal risks, external risks, risk minimisation, risk removal and contingencies
 - procurement management: procurement management concepts and standard practices for managing procurement
 - physical resource management: types of physical resources, including:
 - equipment, technology, information, facilities, physical resource management concepts and standard practices for managing physical resources
 - contracts: 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: standard performance assessment practices and standard continuous improvement practices
 - engineering ethics principles
 - customer/client relations encompassing:
 - importance of customer/client relations
 - interpersonal skills that enhance customer/client
 - dispute resolution
 - customer/client relations strategies
 - 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 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
- 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 managing RE projects
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

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