



Australian Government

UEERE0013 Develop strategies to address environmental and sustainability issues in the energy sector

Release: 1

UEERE0013 Develop strategies to address environmental and sustainability issues in the energy sector

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 develop strategies to address environmental and sustainability issues in the energy sector.

It includes determining, developing and documenting environmental and sustainability issues strategies in the energy sector.

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 environmental and sustainability issues

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 workplace procedures for a given work area are identified, obtained and applied |
| 1.2 | Hazards are identified, WHS/OHS risks are assessed, and control measures and workplace procedures are |

		implemented in preparation for work
	1.3	Scope of the environmental and sustainability issues are determined from performance specifications, situation reports and in consultation with relevant person/s
	1.4	Activities are planned to meet scheduled timelines in consultation with person/s involved in the work
	1.5	Strategies are determined, and solutions developed and implemented in accordance with workplace procedures
2 Develop environmental and sustainability strategies	2.1	WHS/OHS risk control measures and workplace procedures for carrying out work are followed
	2.2	Environmental sustainability principles are applied to develop strategies to address greenhouse gas and sustainability issues
	2.3	Parameters, specifications and performance requirements in relation to environmental and sustainability issues are determined in accordance with workplace procedures
	2.4	Resolving environmental and sustainability issues is analysed to provide most effective solutions
	2.5	Unplanned events are dealt with safely and effectively in accordance with regulatory requirements and workplace policies
	2.6	Quality of work is monitored in accordance with performance agreement and/or workplace procedures or industry standards
3 Document environmental and sustainability strategies	3.1	Strategies to resolve environmental and sustainability issues are tested to determine their effectiveness and modified, as required
	3.2	Adopted strategies are documented and instructions for implementation and risk control measures developed
	3.3	Competent person/s required to implement strategies to environmental and sustainability issues are identified and coordinated in accordance with regulatory requirements and workplace policies
	3.4	Justification for strategies used to address environmental and sustainability issues is documented and included in

work/project records in accordance with relevant industry standards

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.

Addressing environmental and sustainability issues must include the following:

Typical sustainability issues are those encountered in meeting sustainability performance standards and must include at least the following:

- developing engineering strategies for at least two energy sector problems
- reducing needs for energy use
- reducing causes of greenhouse gas emissions
- revising energy system operating parameters
- dealing with energy system efficiencies

Unit Mapping Information

This unit replaces and is equivalent to UEENEEK132A Develop strategies to address environmental and sustainability issues in the energy sector.

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 UEERE0013 Develop strategies to address environmental and sustainability issues in the energy sector

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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 separate occasions and include:

- applying problem-solving techniques
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements
- applying sustainable energy principles and practices
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- determining the extent of the energy sector problems/issues
- developing strategies to address environmental and sustainability issues
- documenting instruction for implementation of solutions that incorporate risk control measure to be followed
- documenting justification of solutions implemented in accordance with professional standards
- forming effective strategies for solution development and implementation
- obtaining energy system/component parameters, specifications and performance requirements appropriate to each issue.

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:

- common issues/problems in a sustainable energy sector environment
- efficient and sustainable energy use and supply, including techniques for reducing the greenhouse gas intensity of energy supply
- environmental and sustainability strategies
- greenhouse best practice in industrial processes and waste management, including types and methods of reducing greenhouse gas emissions from industry
- greenhouse gas emissions profile

- problem-solving techniques
- relevant job safety assessments or risk mitigation processes
- relevant WHS/OHS legislated requirements
- 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 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 facilities currently used in industry
- resources that reflect current industry practices in relation to developing strategies to address environmental and sustainability issues
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals

Links

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