

UEERE0019Y Maintain safety and tidiness of remote area power supply systems

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 equivalent to UEERE0019 Maintain safety and tidiness of remote area power supply systems. Modifications include:

- Several duplicate performance criteria removed
- Updates to performance evidence.

Application

This unit involves the skills and knowledge required to maintain the safety and tidiness of remote area power supply (RAPS) systems.

It includes preparing to maintain safety and tidiness of RAPS system equipment, completing work and reporting issues.

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

Pre-requisite Unit

UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERE0023Y Work safely with remote area power supply systems

Competency Field

Renewable Energy

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

1 Prepare to maintain safety and tidiness of RAPS system

- 1.1** Work health and safety (WHS)/ occupational health and safety (OHS) requirements and workplace procedures are identified and applied
- 1.2** Risks/hazards are identified, assessed, reported to relevant person/s and control measures implemented
- 1.3** Nature and location of the RAPS system is identified from work schedule and relevant person/s to determine the scope of work
- 1.4** Advice on coordinating work with relevant personnel and the local community is obtained from relevant person/s and applied
- 1.5** Tools and equipment required for cleaning work are obtained and checked for correct operation and safety
- 1.6** Need to test or measure live electrical work is determined in accordance with WHS/OHS requirements and conducted in accordance with workplace procedures

2 Maintain RAPS system

- 2.1** Circuits/machines/system are isolated in accordance with WHS/OHS requirements and workplace procedures
- 2.2** RAPS system and area are cleaned in accordance with workplace procedures
- 2.3** Cleaning is completed minimising waste of materials, energy, damage to apparatus, circuits, the surrounding environment and services
- 2.4** Quality checks are conducted in accordance with workplace procedures

3 Complete work and report outcomes

- 3.1** Cleaning and tidiness issues are reported to the local community in accordance with workplace procedures
- 3.2** Cleaning work is completed and issues are reported to relevant person/s in accordance with workplace procedures

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.

RAPS system must incorporate a battery bank and at least two of the following:

- generator set
- photovoltaic (PV) array
- RAPS system
- wind generator

Unit Mapping Information

This unit replaces and is equivalent to UEERE0019 Maintain safety and tidiness of remote area power supply systems.

Links

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

Assessment Requirements for UEERE0019Y Maintain safety and tidiness of remote area power supply systems

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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 occasion and include:

- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures and practices removing non-remote area power supply (RAPS) equipment
- coordinating work with relevant person/s and the local community
- determining live testing/measurement requirements
- safely removing insects, spiders and any animals
- safely removing dust and dirt from floors and equipment
- maintaining safety and tidiness of RAPS system
- conducting quality checks
- completing reporting requirements to relevant person/s and local community.

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:

- RAPS plant area cleaning, and maintaining RAPS systems, including:
 - need for a clean and tidy plant area
 - RAPS system components and associated equipment and their location within the plant area
 - manual fuel pump, if available
 - plant cleaning techniques:
 - fuel and oil
 - acid spills
 - removal of dust, insects, spiders and animals
 - removal of non-RAPS equipment
 - techniques for reporting and dealing with cleaning issues
 - relevant safe work method statements (SWMS) or risk mitigation processes

- relevant WHS/OHS legislated requirements
- relevant workplace documentation, policies and procedures, including reporting requirements.

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 maintaining safety and tidiness of a RAPS system
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

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