



Australian Government

UEERE0024 Attend to breakdowns in remote area power supplies (RAPS)

Release: 1

UEERE0024 Attend to breakdowns in remote area power supplies (RAPS)

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 attend to breakdowns of remote area power supplies (RAPS).

It includes preparing for, conducting, completing and reporting on maintenance of RAPS.

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

UEECD0019 Fabricate, assemble and dismantle utilities industry components

UEECD0042 Solve problems in ELV single path circuits

UEERE0019 Maintain safety and tidiness of remote area power supply systems

Competency Field

Renewable Energy

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to undertake maintenance work

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) requirements for relevant work area are identified and applied in accordance with workplace

- procedures
- 1.2 Risk control measures are applied in accordance with workplace procedures prior to commencing work
 - 1.3 Risks/hazards are identified, assessed, reported to relevant person/s and control measures implemented
 - 1.4 Nature of maintenance work is identified from documentation or from relevant person/s to determine the scope of work
 - 1.5 Advice on coordinating work with others is obtained from relevant person/s and applied
 - 1.6 Materials required for the work are identified and accessed in accordance with workplace procedures
 - 1.7 Tools, equipment and testing devices required for work are obtained and checked for correct operation and safety
- 2 Conduct maintenance work**
- 2.1 Workplace risk control measures and procedures are applied
 - 2.2 Need to test or measure live electrical work is determined in accordance with WHS/OHS requirements and conducted in accordance with workplace procedures
 - 2.3 Circuits/machines/plant are isolated in accordance with WHS/OHS requirements and workplace procedures
 - 2.4 Non-routine events are referred to relevant person/s for directions in accordance with workplace procedures
 - 2.5 Work is conducted minimising waste of materials and energy, damage to apparatus, circuits, the surrounding environment and services
 - 2.6 Quality checks are conducted in accordance with workplace procedures
- 3 Complete work and report outcomes**
- 3.1 Workplace risk control measures and procedures are applied
 - 3.2 Worksite is cleaned and made safe in accordance with workplace procedures
 - 3.3 Relevant person/s is notified of the completion of maintenance in accordance with workplace procedures

and documented

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 UEENEEK109A Attend to breakdowns in remote area power supplies (RAPS).

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 UEERE0024 Attend to breakdowns in remote area power supplies (RAPS)

Modification History

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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 and performance criteria on at least one occasion and include:

- working safely
- ascertaining the nature of a breakdown
- ascertaining the extent of repairs required and the personnel needed to repair the breakdown
- reporting so arrangements can be made for the repair work to be carried out
- undertaking specified minor repairs
- 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
- attending to breakdowns in remote area power supplies (RAPS)
- checking isolation of circuits/machines/systems
- completing relevant reporting
- conducting quality checks
- coordinating work with relevant person/s
- determining live electrical testing/measurement requirements
- identifying and accessing materials, tools, equipment and testing devices.

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:

- remote area essential services facilities breakdowns, including:
 - remote area essential services facilities repairs encompassing:
 - windows
 - fences
 - gate
 - locks and catches
 - power generation components repairs encompassing:

- diesel engines
- generators
- batteries
- photovoltaic (PV) arrays
- wind generators
- auxiliary equipment
- electrical lighting services minor repair encompassing:
 - incandescent light globes
 - fluorescent tubes
 - fluorescent light starters
 - diffusion devices
 - safety awareness
- essential services facilities safety and security and emergency checks encompassing:
 - broken windows
 - faulty lighting
 - damaged gates
 - logging the inspections
 - notification of the situation
 - safety awareness
- telephone encompassing:
 - answer calls promptly and clearly
 - using designated business protocol procedures
 - making and receiving telephone calls in a workplace-related context
 - obtain accurate telephone numbers from an appropriate source
 - establish contact using designated business protocol
 - procedures
 - convey purpose of call clearly and concisely
- electrical encompassing:
 - identification and basic function of electrical components used
 - for generating and distributing
 - electricity safety procedures when working with electricity
 - identification of faulty electrical components
 - reporting of faulty electrical components
- electrical work
- relevant manufacturer specifications
- relevant safe work method statements (SWMS)/job safety assessments or risk mitigation processes
- relevant WHS/OHS legislated requirements
- relevant workplace documentation.

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 attending to breakdowns in RAPS
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

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<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6>