

UEERE0027Y Coordinate maintenance of renewable energy (RE) apparatus and 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 not equivalent to UEERE0027 Co-ordinate maintenance of renewable energy (RE) apparatus and systems. Modifications include:

- Prerequisites changed
- Significant amendments made to Elements and Performance Criteria
- Range of conditions updated
- Amendments to Performance and Knowledge Evidence.

Application

This unit involves the skills and knowledge required to coordinate maintenance of renewable energy (RE) apparatus and systems.

It includes preparing for, conducting and completing coordination of maintenance work.

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

Pre-requisite Unit

UEERE9987Y Maintain renewable energy (RE) apparatus

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 coordinate maintenance of RE apparatus and systems

- 1.1** Work health and safety (WHS)/occupational health and safety (OHS) requirements for relevant work area/s are identified, interpreted and applied
- 1.2** Scope of work is determined from maintenance schedule manufacturer specifications, workplace policies and procedures and regulatory requirements
- 1.3** Competencies, licences and/or permits required to conduct work are determined from job specifications, workplace policies/procedures, regulatory requirements, and consultations with appropriate person/s
- 1.4** Personnel and materials required for maintenance are arranged in accordance with workplace procedures and against maintenance schedule job requirements
- 1.5** Tools, equipment and testing devices required for maintenance are arranged in accordance with workplace procedures and against maintenance schedule job requirements
- 1.6** Need to test or measure live electrical work is determined from maintenance schedule, and in accordance with WHS/OHS requirements, and considered in the coordination of personnel
- 1.7** Maintenance plan is developed based on maintenance schedule, regulatory and competency requirements, and communicated to relevant personnel

2 Coordinate maintenance of RE apparatus and systems

- 2.1** Maintenance is coordinated in accordance with maintenance schedule and plan
- 2.2** Strategies to deal with unexpected situations are determined based on safety requirements, job specifications, workplace procedures and from discussions with relevant person/s
- 2.3** Maintenance quality checks are conducted to confirm compliance with regulation, technical standards, job specifications, WHS/OHS requirements and workplace procedures

- 2.4** Maintenance activities are evaluated against performance expectations and recommended improvements documented and submitted to appropriate person/s
- 2.5** Maintenance documentation/reports are checked for compliance with requirements and stored in accordance with workplace procedures, manufacturer and regulatory requirements

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.

Coordinating maintenance of renewable energy (RE) apparatus and systems must include:

- coordination of maintenance for multiple sites or types of equipment/systems
- coordination of work for both licenced and unlicenced maintenance personnel

Unit Mapping Information

This unit replaces and is not equivalent to UEERE0027 Co-ordinate maintenance of renewable energy (RE) apparatus and systems.

Links

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

Assessment Requirements for UEERE0027Y Coordinate maintenance of renewable energy (RE) apparatus and 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 and performance criteria on at least two occasions and include:

- determining and applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements
- correctly interpreting:
 - maintenance schedule
 - manufacturer maintenance specifications
 - relevant regulatory requirements
 - relevant workplace policies and procedures related to maintenance
- arranging appropriate tools, equipment, materials and personnel to complete maintenance requirements
- ensuring personnel completing maintenance have required competencies, licences and/or permits
- developing and implementing a maintenance plan to achieve maintenance requirements
- coordinating and monitoring the quality of maintenance work
- ensuring maintenance records and documentation are completed and stored in accordance with requirements.

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:

- maintenance principles including:
 - maintenance function

- role of maintenance department
- WHS/OHS requirements
- maintenance systems including:
 - maintenance terminology
 - preventative maintenance
 - predictive maintenance
 - corrective maintenance
- data acquisition including:
 - plant history cards/files
 - inspection techniques
 - predictive maintenance
 - remote visual inspection
 - non-destructive testing
 - vibration analysis
 - oil analysis
- maintenance plan including:
 - characteristics of plant operation
 - assessment of failure characteristics
 - link failure characteristics to maintenance systems
 - identify production windows
 - resources
 - labour
 - materials
 - establish plan
 - implementation procedures
- review of maintenance plan including:
 - analysis of records
 - manual recording methods
- computerised recording methods
- relevant manufacturer specifications
- relevant WHS/OHS requirements
- 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 coordinating maintenance of RE apparatus and systems
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

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