



Australian Government

UEECD0011 Comply with scheduled and preventative maintenance program processes

Release: 1

UEECD0011 Comply with scheduled and preventative maintenance program processes

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 comply with the quality assurance and risk management processes for scheduled and preventative maintenance of the electrotechnology aspects of plant and equipment.

It includes working safely and to technical, quality and risk management standards, work specifications and maintenance schedules; sampling inspections; evaluating components and completing the necessary maintenance documentation.

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

Pre-requisite Unit

Not applicable

Competency Field

Cross Discipline

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to comply with scheduled maintenance program process

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 and workplace procedures for a given work area are identified, obtained and applied

- 1.2 Hazards are identified, risks assessed and control measures implemented
 - 1.3 Maintenance schedule and process compliance requirements are confirmed with relevant person/s and work appropriately sequenced in accordance with workplace procedures
 - 1.4 Relevant person/s is consulted to ensure the work is coordinated effectively with others involved on the work site
 - 1.5 Location of equipment to be maintained is determined from maintenance schedule and/or system specifications and diagrams
 - 1.6 Resources required to conduct the maintenance are obtained in accordance with workplace procedures and checked against job requirements
 - 1.7 Tools, equipment and testing devices required to conduct the maintenance are obtained and checked for correct operation and safety in accordance with workplace procedures
- 2 **Comply with scheduled maintenance program process**
 - 2.1 WHS/OHS risk control measures and workplace procedures for carrying out the work are followed
 - 2.2 Inspecting, testing or measuring on live and operating systems is conducted in accordance with WHS/OHS requirements and workplace procedures
 - 2.3 Circuits/machines/plant are checked and isolated as required in accordance with WHS/OHS requirements and workplace procedures
 - 2.4 Apparatus/components to be maintained are inspected and evaluated for compliance in accordance with maintenance schedule and operational and WHS/OHS requirements and workplace procedures
 - 2.5 Non-compliant apparatus/components are documented and arrangements made for rectification in accordance with workplace procedures
 - 2.6 Methods for dealing with unplanned situations are discussed with relevant person/s and documented in accordance with workplace procedures

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| | 2.7 | Quality checks of the maintenance are undertaken in accordance with workplace procedures |
| | 2.8 | Maintenance process compliance is carried out efficiently without waste of materials or damage to apparatus, the surrounding environment or services using sustainable energy practices |
| 3 Complete maintenance compliance process | 3.1 | WHS/OHS risk control measures and workplace procedures for work completion are followed |
| | 3.2 | Work site and equipment are cleaned and made safe in accordance with WHS/OHS requirements and workplace procedures |
| | 3.3 | Final checks are made to verify that maintenance complies with WHS/OHS requirements, manufacturer specifications and workplace procedures |
| | 3.4 | Maintenance completion is documented and relevant person/s notified 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.

Complying with scheduled and preventative maintenance processes must include at least the following:

- three different items of installed equipment

Unit Mapping Information

This unit replaces and is equivalent to UEENEEE009B Comply with scheduled and preventative maintenance program processes.

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 UEECD0011 Comply with scheduled and preventative maintenance program processes

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, performance criteria and range of conditions on at least two separate occasions and include:

- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - using risk control measures
 - checking tools, equipment and testing devices for correct operation and safety
- applying sustainable energy principles and practices
- communicating effectively with relevant stakeholders
- complying with scheduled and preventative maintenance program processes, including:
 - interpreting maintenance schedule requirements correctly
 - following quality assurance and risk management compliance processes
 - following maintenance schedule
 - inspecting and evaluating apparatus for quality assurance and risk compliance
 - arranging for corrective action of non-compliant apparatus
 - documenting maintenance work
- consulting relevant person/s to coordinate maintenance
- dealing with unplanned events in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- determining location of equipment maintenance
- ensuring circuits/machines/plant are isolated
- interpreting system specifications and diagrams
- maintaining a clean worksite and equipment
- obtaining relevant resources to conduct maintenance
- performing regular quality checks.

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:

- corrective action procedures for non-compliant apparatus
- data acquisition, including:
 - plant history cards/files
 - inspection techniques
 - predictive maintenance
 - remote visual inspection
 - non-destructive testing
 - thermography
 - 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
- maintenance principles, including:
 - maintenance function
 - role of maintenance department
- maintenance systems, including:
 - maintenance terminology
 - preventative maintenance
 - predictive maintenance
 - corrective maintenance
- quality assurance compliance processes
- relevant risk mitigation processes
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace policies and procedures
- review of maintenance plan, including:
 - analysis of records
 - manual and electronic recording methods
- scheduled and preventative maintenance process
- sustainable energy principles and practices
- techniques to inspect and evaluate apparatus for quality assurance and risk compliance.

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 workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in 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
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

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