



Australian Government

UEECD0052 Use routine equipment/plant/technologies in an energy sector environment

Release: 1

UEECD0052 Use routine equipment/plant/technologies in an energy sector environment

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 use routine equipment, plant, technologies and personnel protective equipment (PPE) in an energy sector environment.

It includes preparing and using equipment, plant, technologies and PPE, and completing workplace requirements in an energy sector work environment.

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

Competency Field

Cross Discipline

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to use equipment, plant and technologies

PERFORMANCE CRITERIA

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

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| 1.1 | Work instructions in the use of equipment, plant or technologies are obtained, interpreted and followed |
| 1.2 | Work health and safety (WHS)/occupational health and safety (OHS) policies and workplace procedures are identified, communicated and confirmed to ensure they |

- are applied in the carrying out of work activities in an energy sector environment
- 1.3** Tools, equipment and PPE necessary for work are identified, scheduled and checked to ensure they work correctly and are safe to use in accordance with workplace procedures
 - 1.4** Relevant person/s is consulted to ensure the work is coordinated effectively with others
 - 1.5** Resources and materials needed for work are confirmed, scheduled and obtained in accordance with workplace procedures
 - 1.6** Schedule of work, including practices for working safely, are confirmed in accordance with workplace instructions and requirements
- 2 Use equipment, plant and technologies**
- 2.1** WHS/OHS policies and workplace procedures for safe work practices are followed to eliminate or minimise incidents
 - 2.2** Equipment, plant or technologies are used in accordance with schedule of work to ensure work is completed in agreed timelines, to required quality standard and with a minimum of waste
 - 2.3** Unplanned situations are responded to in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
 - 2.4** Regular checks of work quality are undertaken in accordance with work instructions and job requirements
- 3 Complete use of equipment, plant and technologies**
- 3.1** Regular checks are made to ensure the safe use of equipment, plant or technologies in accordance with job instructions and requirements
 - 3.2** Relevant person/s is notified of work completion using equipment, plant or technologies
 - 3.3** Tools, equipment and surplus resources and materials are appropriately cleaned, checked and returned to storage in accordance with workplace procedures
 - 3.4** Work area is cleaned, made safe and sustainable energy practices are followed

- 3.5** Workplace record/s are updated in accordance with work instructions and 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 Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEENEEE141A Use of routine equipment/plant/technologies in an energy sector environment.

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 UEECD0052 Use routine equipment/plant/technologies in an energy sector environment

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 two separate occasions and include:

- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - applying risk control measures
- following workplace procedures and instruction
- applying sustainable energy principles and practices
- completing workplace documentation
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- maintaining a clean worksite and equipment
- preparing and using equipment, plant and technologies, including:
 - completing schedule of work
 - using and returning tools, equipment, personnel protective equipment, surplus resources and materials
 - updating work records.
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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:

- electrical concepts, including:
 - electrical supply and distribution within a building or premises
 - arrangement of circuits
 - protection for safety requirements and their practice
 - difference between alternating current (a.c.) and direct current (d.c.)
 - measurement and calculation of voltage, current, resistance and power in practical circuits
 - concepts and applications of magnetism and electromagnetic induction

- transformer operating principles and their application
- hazards associated with electrical systems and apparatus
- energy sector tools, equipment and technology
- relevant energy sector industry standards
- relevant manufacturer specifications
- operating instruction for tools, equipment and technologies
- relevant job safety assessments or risk mitigation processes
- relevant sustainable energy practices
- relevant WHS/ OHS legislated requirements
- relevant workplace documentation
- relevant workplace policies, procedures and instructions.

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, facilities, equipment and personal protective equipment (PPE) currently used in industry
- applicable documentation, including workplace procedures, equipment specifications, regulations, relevant industry standards, codes of practice and operation manuals.

Links

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