



Australian Government

UEECD0006 Apply technologies and concepts to energy sector work activities

Release: 1

UEECD0006 Apply technologies and concepts to energy sector work activities

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 apply technologies and concepts to energy sector work activities.

It includes preparing and applying technologies and concepts to work activities. It also includes checking results using technologies and applications of concepts using a range of information technologies, and applying analytical concepts to achieve desired outcomes ensuring work is completed in an agreed time, to industry standard and with a minimum of waste.

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 apply technologies and concepts

PERFORMANCE CRITERIA

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

1.1 Instructions to apply technologies and concepts are communicated and confirmed

- 1.2 Work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures are identified and applied
 - 1.3 Tools, equipment and personal protective equipment (PPE) necessary for work are obtained in accordance with workplace procedures and checked for correct operation and safety
 - 1.4 Relevant person/s is consulted to ensure work is coordinated with others
 - 1.5 Resources and materials needed to apply technologies and concepts are confirmed, scheduled and obtained in accordance with workplace procedures
 - 1.6 Schedule to apply technologies and concepts, including practices for working safely, is confirmed in accordance with instructions and requirements
- 2 Use technologies and apply concepts to work**
 - 2.1 WHS/OHS workplace procedures and safe work practices are followed to eliminate or minimise incidents
 - 2.2 Schedule of using technologies and applying concepts to achieving the desired outcome is followed to ensure work is completed in an agreed time, to a quality standard and with a minimum of waste
 - 2.3 Further instructions are sought from relevant person/s in the event of unplanned events
 - 2.4 Ongoing checks of work quality are undertaken in accordance with workplace procedures and job requirements
- 3 Check results**
 - 3.1 Final checks are made to ensure technologies and applications of concepts conforms with instructions and requirements
 - 3.2 Relevant person/s is notified of completion in the use of technologies and applications of concepts
 - 3.3 Tools, equipment, surplus resources and materials are cleaned, checked and returned to storage in accordance with workplace procedures
 - 3.4 Work area is cleaned and made safe by applying sustainable energy practices

3.5 Records are updated 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.

Unit Mapping Information

This unit replaces and is equivalent to UEENEEE144A Apply technologies and concepts to energy sector work activities.

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 UEECD0006 Apply technologies and concepts to energy sector work activities

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:

- understanding work instruction
- obtaining and checking tools and equipment
- following work schedules
- using technologies and applying concepts appropriately
- returning tools and surplus resources as required
- updating work records
- dealing with unplanned events
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including the use of risk control measures
- applying sustainable energy principles and practices
- cleaning and making safe work area
- communicating and confirming technologies and concepts, including information technologies
- obtaining resources and materials, including performing ongoing checks
- working with relevant person/s.

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:

- energy sector technologies and concepts, personal computers and computer hardware, including:
 - starting up
 - selecting application
 - entering information
 - saving
 - printing
 - structure and components and their function:
 - motherboards, memory modules, video modules, connecting buses and storage

devices

- assembling and dismantling techniques
- hardware faults and troubleshooting techniques (confined to sub-system level)
- basic network hardware and components
- connection of network media
- set-up of standard network configuration
- communication techniques
- relevant job safety assessments or risk mitigation processes
- relevant manufacturer specifications
- relevant tools, equipment and personal protective equipment (PPE)
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace policies and procedures
- sustainable energy principles and practices.

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 PPE currently used in industry
- 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>