



**Australian Government**

# **UEECD0033 Produce products for carrying out energy sector work activities**

**Release: 1**

# UEECD0033 Produce products for carrying out 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 produce products for carrying out energy sector work activities.

It includes preparing and producing products for carrying out energy sector work, and checking quality of the products produced.

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

## Competency Field

Cross Discipline

## Unit Sector

Electrotechnology

## Elements and Performance Criteria

### ELEMENTS

Elements describe the essential outcomes.

#### 1 Prepare to produce products

### PERFORMANCE CRITERIA

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

- 1.1 Work instructions for preparing work activities of the product are obtain and confirmed
- 1.2 Work health and safety (WHS)/occupational health and safety (OHS) policies and workplace procedures are

- communicated, confirmed and applied to the carrying out of the energy sector work activities
- 1.3** Tools, equipment and personal protective equipment (PPE) for work are identified, checked and are safe to use in accordance with workplace procedures
  - 1.4** Relevant person/s is consulted to ensure work is coordinated effectively with others
  - 1.5** Resources and materials required for work activities and energy sector produced products are confirmed, scheduled and obtained in accordance with workplace procedures
  - 1.6** Schedule of work and safe work practices are confirmed in accordance with work instructions and workplace procedures
- 2 Produce energy sector products**
- 2.1** WHS/OHS policies and workplace procedures for safe work practices are followed to eliminate or minimise incidents
  - 2.2** Schedule of work is followed to ensure products are completed in accordance with agreed timelines, 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** Quality checks of work activities are undertaken in accordance with work instructions and workplace procedures
- 3 Check results of products produced**
- 3.1** Checks are made to ensure the completed product is in accordance with work instructions
  - 3.2** Relevant person/s is notified of work activity completion
  - 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, made safe and sustainable energy practices are followed
  - 3.5** Records 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 UEE Electrotechnology Training Package Companion Volume Implementation Guide.

## **Unit Mapping Information**

This unit replaces and is equivalent to UEENEEE142A Produce products for carrying out 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 UEECD0033 Produce products for carrying out energy sector work activities

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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 energy sector industry standards
- applying quality, workplace procedures and instructions
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements: including using risk control measures
- applying sustainable energy practices
- completing schedule of work
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- preparing and producing energy sector products, including:
  - obtaining and checking tools and equipment
  - updating work records
  - using and returning tools, equipment, personal protective equipment (PPE), surplus resources and materials
  - using relevant hand, fixed and portable tools.

## 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:

- basic technical drawing conventions and symbols
- freehand technical sketching techniques
- hand tools for cutting, shaping, drilling, threading, tapping, and finishing metallic and non-metallic components, including:
  - types of tools and their purpose
  - techniques for the correct and safe use of these tools
  - hazards associated with their use
  - care and maintenance of hand tools
- tools for measuring and marking out, including:

- types of tools and their purpose
- techniques for the correct and safe use of these tools
- hazards associated with their use
- care and maintenance of hand tools
- tools for dismantling and assembling electrical and electronic components, including:
  - types of tools and their purpose
  - techniques for the correct and safe use of these tools
  - hazards associated with their use
  - care and maintenance of hand tools
- fixed power tools for cutting, shaping, drilling, and finishing metallic and non-metallic components, including:
  - types of tools and their purpose
  - techniques for the correct and safe use of these tools
  - hazards associated with their use
  - care and maintenance of fixed power tools
- portable power tools for cutting, shaping, drilling, and structural components including:
  - types of tools and their purpose
  - techniques for the correct and safe use of these tools
  - hazards associated with their use
  - care and maintenance of fixed power tools
  - requirements for use on construction sites
- purpose of sequencing dismantling and assembling
- importance of marking/labelling and storing parts
- techniques for dismantling and assembling close fitting parts
- use of gasket and seals
- hazards associated with welding activities and equipment
- welding processes and industry applications
- thermal cutting techniques
- manual metal arc welding processes
- problem-solving techniques
- relevant energy sector industry standards
- relevant job safety assessments or risk mitigation processes
- relevant manufacturer specifications and operating instructions for tools and equipment
- relevant quality workplace procedures
- relevant sustainable energy practices
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace policies, procedures and instructions, including quality workplace 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 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 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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