



Australian Government

UEPMNT308 Maintain conveyors and associated equipment

Release: 2

UEPMNT308 Maintain conveyors and associated equipment

Modification History

Release 2. Minor release to update superseded pre-requisite units.

Release 1. This is the first release of this unit of competency in the UEP Generation Training Package.

Application

This unit involves the skills and knowledge required to undertake fault finding, diagnosis, adjustments, exchange of rollers and preparations for belt splicing and/or repairs of conveyors and associated equipment.

A conveyor system is a continuous moving band of fabric, rubber or metal used for transporting bulk materials from one place to another in a power generation facility.

Competency in this unit requires the ability to plan work, remove associated equipment to facilitate maintenance, maintain conveyors and/or associated equipment, replace and/or install conveyors and/or associated equipment and to report on all completed work tasks. Individuals will, in general, work under supervision in an electrical, electronic and/or mechanical equipment repair workshop or on site.

Power generation maintenance personnel are typically trained and authorised to receive permits to work.

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

Note: Workplace practice

The application of the skills and knowledge described in this unit of competency may require a licence or training permit to practice in the workplace, where work is carried out on gas and electrical installations. Additional and/or other conditions may apply under state and territory legislative and regulatory licensing requirements.

Pre-requisite Unit

MEM09002 Interpret technical drawing

MEM12023 Perform engineering measurements

MEM18001 Use hand tools

MEM18002 Use power tools/hand held operations

MEM18006 Perform precision fitting of engineering components

MEM18055 Dismantle, replace and assemble engineering components

Competency Field

Maintenance

Unit Sector

Electricity generation

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan and prepare for work

2 Remove associated equipment to facilitate

PERFORMANCE CRITERIA

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

- 1.1** Requirements including scope of work and assigned roles are identified and confirmed with appropriate personnel or by site inspection, in accordance with workplace procedures
- 1.2** Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) regulations, legislative requirements, industry standards, codes of practice, manufacturers' specifications, environmental obligations and workplace procedures are reviewed in preparation for work
- 1.3** Resources for work activities are obtained and inspected for compliance with job specification
- 1.4** Relevant plans, drawings and manuals are selected and used, in accordance with workplace procedures
- 1.5** Correct materials and components for work are obtained and inspected, in accordance with workplace procedures, for compliance with job specification
- 1.6** Work is planned, sequenced and prioritised, in accordance with workplace procedures
- 1.7** Potential hazards are identified, and risk control measures are selected and implemented, in accordance with workplace procedures
- 1.8** Work area is prepared, in accordance with workplace procedures
- 2.1** Faulty components and parts of conveyor system are identified and isolations are confirmed, where

maintenance	appropriate, in accordance with workplace procedures
	2.2 Associated equipment of conveyor system is disconnected, in accordance with the workplace procedures
	2.3 Associated equipment of conveyor system is removed, in a manner which will assist in replacement, in accordance with the workplace procedures
	2.4 Conveyors and associated equipment are inspected for abnormalities, in accordance with workplace procedures
3 Maintain conveyors or associated equipment	
	3.1 Belt tensioning equipment is released and secured, to facilitate maintenance, in accordance with workplace procedures
	3.2 Sketches are made, data is noted and components are marked for identification or reassembly, in accordance with manufacturers' specification and workplace procedures
	3.3 Modifications or alterations outside of manufacturers' specification are approved, in accordance with workplace procedures
	3.4 New components are installed, and inspected for compliance with job specification, and are prepared for reassembly, in accordance with workplace procedures
	3.5 Dimensional inspection is performed, in accordance with workplace procedures, using precision measuring devices to determine compliance
	3.6 Conveyors are levelled, aligned and tensioned, in accordance with workplace procedures and site requirements
4 Replace or install conveyors or associated equipment	
	4.1 Faulty components and parts are identified, and site is prepared for conveyors and associated equipment to be replaced, in accordance with workplace procedures
	4.2 Conveyors and associated equipment are replaced, in accordance with workplace procedures and manufacturers' specification
	4.3 Conveyors and associated equipment are levelled, aligned and coupled, in accordance with workplace procedures

- 4.4 All fastenings are torqued, in accordance with workplace procedures and manufacturers' specifications
 - 4.5 Conveyors and associated equipment are given a test run, monitored and adjusted, as required, in accordance with workplace procedures and manufacturers' specifications
- 5 **Complete work**
 - 5.1 Work is completed and appropriate personnel are notified, in accordance with workplace procedures
 - 5.2 Work area is cleared of waste, cleaned, restored and secured, in accordance with workplace procedures
 - 5.3 Tools and equipment are cleaned, maintained and stored, in accordance with workplace procedures
 - 5.4 Work completion details are finalised, 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 Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPMT308B Maintain conveyors and associated equipment.

Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>

Assessment Requirements for UEPMNT308 Maintain conveyors and associated equipment

Modification History

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements, performance criteria and range of conditions on at least two separate occasions and includes:

- applying Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) requirements including:
 - emergency procedures
 - hazard identification
 - risk control measures
 - safe working practices
- communicating with personnel
- completing work as per schedule requirements
- dismantling, exchanging and reassembling components and parts
- identifying and using measuring equipment
- interpreting manufacturers' specifications and manuals
- maintaining conveyors or associated equipment
- performing removal, maintenance, installing, valve levelling and alignment techniques and procedures
- planning for conveyor and associated equipment maintenance work
- removing conveyors and associated equipment to facilitate maintenance
- replacing and installing conveyors or associated equipment
- tracking, aligning and tensioning conveyors and associated equipment
- using tools
- working with permit to work system

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements, performance criteria and range of conditions and includes knowledge of:

- dismantle, exchange and reassembly of components and parts

- identification and use of measuring equipment
- interpretation of technical drawings, manufacturers' specifications and manuals
- isolations
- legislation, industry standards, codes of practice and regulations
- level and alignment techniques
- maintenance of conveyors and associated equipment valve levelling and alignment techniques
- manufacturers' specifications and manuals
- permit to work system
- tool use
- track, align and tension conveyors and associated equipment
- WHS/OHS legislated requirements including:
 - emergency procedures
 - hazard identification
 - risk control measures
 - safe working practices
- workplace documentation
- workplace policies and procedures

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

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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.

Assessment must occur in workplace operational situations. Where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

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 currently used in industry
- applicable documentation including workplace procedures, industry standards, equipment specifications, regulations, codes of practice and operation manuals.

Links

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