



**Australian Government**

# **UEERS0009 Install and maintain power-operated point actuating devices**

**Release: 1**

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## **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 install/maintain power-operated point actuating devices in rail networks.

It includes preparing and installing/maintaining power-operated point actuating devices. It also includes completing installation/maintenance of power-operated point actuating device, performing operational tests and reporting requirements.

Persons achieving competence in this unit will need to fulfil the applicable state/territory legislated rail safety requirements and to comply with relevant codes of practice, rules and/or guidelines.

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

## **Pre-requisite Unit**

UEERS0013 Install and maintain train detection equipment

## **Competency Field**

Rail Signalling

## **Unit Sector**

Electrotechnology

## **Elements and Performance Criteria**

### **ELEMENTS**

Elements describe the essential outcomes.

### **PERFORMANCE CRITERIA**

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

- 1 Prepare to install/maintain power-operated point actuating device**
  - 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 clarified
  - 1.2** Hazards are identified, WHS/OHS risks are assessed, control measures and workplace procedures are implemented in preparation for work
  - 1.3** Scope of the installation/maintenance is determined from maintenance schedules, job specifications, drawings and regulatory requirements
  - 1.4** Appropriate rail safe working personnel are consulted to ensure work is coordinated effectively with others involved on the worksite
  - 1.5** Materials needed for the installation/maintenance are obtained in accordance with workplace procedures and checked against job specifications
  - 1.6** Tools, equipment and testing devices needed for installation/maintenance work are obtained in accordance with workplace procedures and checked for correct operation and safety
- 2 Install/maintain power-operated point actuating device**
  - 2.1** WHS/OHS risk control measures and workplace procedures for carrying out work are followed
  - 2.2** Installation/maintenance, cleaning, brushing and lubricating work are carried out on point actuating devices in accordance with technical and operational specifications
  - 2.3** Adjustments to point actuating devices are made to ensure correct operation, and perway fastenings and timbers are inspected in accordance with operational specifications
  - 2.4** Position and mounting of point actuating devices are checked in accordance with site layout and operational specifications
  - 2.5** Installation/maintenance is performed efficiently, without waste of materials, damage to apparatus, the surrounding environment or services using sustainable energy practices

- 2.6 Function of equipment is determined from technical data, maintenance handbooks, workplace and equipment operating procedures
  - 2.7 Faulty, worn, damaged or insecure components are replaced, repaired or secured in accordance with technical and manufacturer specifications to ensure operational effectiveness
  - 2.8 Equipment is inspected and tested in accordance with workplace testing procedures to ensure operational and technical requirements are achieved
  - 2.9 Methods for dealing with unplanned situations are determined on the basis of safety and specified work outcomes
- 3 Complete power-operated point actuating device installation/maintenance**
- 3.1 WHS/OHS work completion risk control measures and workplace procedures are followed
  - 3.2 Documentation is completed to provide an accurate installation/maintenance record and Network Control Officer informed of work status details
  - 3.3 Reusable, faulty or worn components are tagged and despatched for repair to maintain adequate spares
  - 3.4 Faulty perway conditions/components are documented to provide details for corrective/follow-up action
  - 3.5 Point actuating devices are temporarily taken out of service, instated back into service and certified in accordance with organisation requirements and workplace procedures
  - 3.6 Maintenance work activities are recorded in accordance with organisation requirements to provide accurate records and produce relevant reports

## 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 UEENEEN108A Install and maintain power operated point actuating devices.

## Links

Companion Volume implementation guides are found in VETNet - -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6>