



Australian Government

UEEEL0044 Diagnose and rectify faults in complex lift systems

Release: 2

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Modification History

Release 2. Minor Change. Typographic error in prerequisites corrected.

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 diagnose and rectify faults in a lift system.

It includes diagnosing and rectifying faults in complex lift system and equipment, and completing reporting and rectification activities.

The skills and knowledge described in this unit require a licence or permit to practice in the workplace where work is carried out on electrical installations which are designed to operate at voltages greater than 50 volt (V) alternating current (a.c.) or 120 V direct current (d.c.).

Competency development activities in this unit are subject to regulations directly related to licensing. Where a licence or permit to practice is not held, a relevant contract of training, such as an Australian Apprenticeship, may be required.

Additional and/or other conditions may apply in some jurisdictions subject to regulations related to electrical work. Practice in the workplace and during training is also subject to work health and safety (WHS)/occupational health and safety (OHS) regulations.

Pre-requisite Unit

UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

UEECD0019 Fabricate, assemble and dismantle utilities industry components

UEECD0020 Fix and secure electrotechnology equipment

UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications

UEEEL0003 Arrange circuits, control and protection for general electrical installations

UEEEL0020 Solve problems in low voltage a.c. circuits

UEEEL0023 Terminate cables, cords and accessories for low voltage circuits

UEEEL0045 Diagnose and rectify faults in traction lift systems

UEEIC0020 Fault find and repair analogue circuits and components in electronic control systems

UEEIC0018 Diagnose and rectify faults in digital controls systems

UEEEL0019 Solve problems in direct current (d.c.) machines

UEEEL0021 Solve problems in electromagnetic devices

UEEEL0014 Isolate, test and troubleshoot low voltage electrical circuits

UEEEL0008 Evaluate and modify low voltage heating equipment and controls

UEEEL0009 Evaluate and modify low voltage lighting circuits, equipment, and controls

UEEEL0010 Evaluate and modify low voltage socket outlets circuits

UEEEL0024 Test and connect alternating current (a.c.) rotating machines

UEEEL0025 Test and connect transformers

and

UEECD0043 Solve problems in direct current circuits

or

UEECD0046 Solve problems in single path circuits

UEECD0044 Solve problems in multiple path circuits

Competency Field

Electrical

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to diagnose a lift system fault

PERFORMANCE CRITERIA

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

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|------------|---|
| 1.1 | WHS/OHS workplace procedures for a given work area are identified and applied |
| 1.2 | Scope of work to be undertaken is determined from maintenance procedures, fault/breakdown reports and/or discussions with appropriate person/s |
| 1.3 | Advice is sought from the work supervisor to ensure the work is coordinated effectively with relevant others |
| 1.4 | Tools, equipment and testing devices needed to carry out the work are obtained in accordance with workplace procedures and checked for correct operation and safety |

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|--|---|
| 2 Diagnose and rectify lift system faults | <div style="margin-left: 20px;"><p>2.1 WHS/OHS risk control measures and workplace procedures for carrying out work activities are followed</p><p>2.2 Circuits/machines/plant are isolated in accordance with relevant industry standards and workplace procedures</p><p>2.3 Safety hazards resulting from the fault and/or breakdown are documented and risk control measures implemented in consultation with appropriate person/s</p><p>2.4 Diagnostics are applied to apparatus, equipment and systems to identify fault/s</p><p>2.5 Suspected fault scenarios are tested as cause/s of system fault</p><p>2.6 Cause of the fault is identified and appropriate person/s engaged to rectify the fault</p><p>2.7 Faults in the lift components of the system are rectified in accordance with apparatus and system industry operational standards</p><p>2.8 Apparatus, equipment and system/s are verified and tested to meet required industry standards</p><p>2.9 Unplanned situations are responded to in accordance with workplace procedures in a manner that minimises risk to personnel and equipment</p><p>2.10 Diagnosis and rectification activities are carried out efficiently without waste of materials or damage to apparatus, the environment or services using sustainable energy practices</p></div> |
| 3 Complete work and report fault diagnosis and rectification activities | <div style="margin-left: 20px;"><p>3.1 Reusable, faulty or worn components are tagged and despatched for repair in accordance with workplace procedures</p><p>3.2 Rectification of faults is documented in accordance with workplace procedures</p><p>3.3 Rectification of faults is reported and appropriate person/s notified in accordance with workplace procedures</p></div> |

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 UEENEEG168A Diagnose and rectify faults in complex lift systems.

Links

Companion Volume implementation guides are found in VETNet - -

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