UETTDRSB24 Maintain high voltage power system circuit breakers

Release: 1
UETTDRSB24 Maintain high voltage power system circuit breakers

Modification History

Release 1. This is the first release of this unit of competency in the UET Transmission, Distribution and Rail Sector Training Package.

Application

This unit involves the skills and knowledge required to maintain high voltage (HV) power system circuit breakers in the electricity supply industry (ESI).

It includes diagnosing faults, repairing and replacing HV power system circuit breakers components in accordance with workplace procedures. It also includes performing diagnostic checks, pre-commissioning tests and function checks involving circuit breakers and associated control circuits and interpreting these tests against agreed specifications.

The application of the skills and knowledge described in this unit may require a licence/registration to practice in the workplace.

Other conditions may apply under state and territory legislative and regulatory licensing requirements which must be confirmed prior to commencing this unit.

Pre-requisite Unit

All competencies in the Common Unit Group must have been completed, plus all competencies in one (1) of the identified Pathway Unit Group(s).

Common Unit Group

UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace
UEENEEE102A Fabricate, assemble and dismantle utilities industry components
UEENEEE104A Solve problems in d.c. circuits
UEENEEE105A Fix and secure electrotechnology equipment
UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications
UEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work
UEENEEG006A Solve problems in single and three phase low voltage machines
UEENEEG033A Solve problems in single and three phase low voltage electrical apparatus and circuits
UEENEEG063A Arrange circuits, control and protection for general electrical installations
UEEENEEG101A Solve problems in electromagnetic devices and related circuits
UEEENEEG102A Solve problems in low voltage a.c. circuits
UEEENEEG106A Terminate cables, cords and accessories for low voltage circuits
UEEENEEG108A Trouble-shoot and repair faults in low voltage electrical apparatus and circuits
UEEENEEG109A Develop and connect electrical control circuits

Pathway 1 - Electrician
UEEENEEG103A Install low voltage wiring and accessories
UEEENEEG104A Install appliances, switchgear and associated accessories for low voltage electrical installations
UEEENEEG105A Verify compliance and functionality of low voltage general electrical installations
UEEENEEG107A Select wiring systems and cables for low voltage general electrical installations
Pathway 2 - Electrical Fitter
UEEENEEG199A Conduct compliance and functional verification of electrical apparatus and existing circuits

**Competency Field**

Substation

**Unit Sector**

Not applicable.

**Elements and Performance Criteria**

<table>
<thead>
<tr>
<th>ELEMENTS</th>
<th>PERFORMANCE CRITERIA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1 Plan to maintain HV power system circuit breakers</strong></td>
<td>1.1 Work schedules, construction plans, drawings, workplace procedures and material lists are obtained and analysed</td>
</tr>
<tr>
<td></td>
<td>1.2 Job requirements and workplace procedures are identified and communicated with relevant personnel</td>
</tr>
<tr>
<td></td>
<td>1.3 Hazards are identified, work health and safety (WHS)/occupational health and safety (OHS) risks</td>
</tr>
</tbody>
</table>
assessed and control measures prioritised, implemented and monitored in accordance with workplace procedures

1.4 Work is prioritised and sequenced for completion within acceptable timeframes following consultation with relevant personnel and in accordance with workplace procedures

1.5 Risk control measures are identified, prioritised, implemented and evaluated against the work schedule

1.6 Equipment, tools and personal protective equipment (PPE) required for work are identified, obtained and confirmed in working order

1.7 Liaison and communication issues with authorised personnel, authorities, clients and land owners are resolved to facilitate work, as required

1.8 Personnel participating in work are fully briefed and responsibilities confirmed in accordance with workplace procedures

1.9 Worksite is prepared in accordance with the work schedule and to minimise risk and damage to property and personnel in accordance with established procedures

2 Carry out maintenance on HV power system circuit breakers

2.1 WHS/OHS, sustainable energy and environmental principles and practices are monitored and actioned to reduce incidents of accidents in accordance with workplace procedures

2.2 Cardiopulmonary resuscitation (CPR), rescue from live electrical apparatus and other related safety procedures are in place in accordance with job requirements and/or workplace procedures

2.3 Safe working documentation is acquired and requirements completed in accordance with established procedures

2.4 Requirements for lifting, climbing, working at heights, confined spaces and use of power tools/equipment are followed in accordance with workplace procedures

2.5 Hazard warnings and safety signs are recognised and hazards and assessed WHS/OHS risks are reported to immediate authorised personnel for directions in accordance with established procedures
2.6 Essential knowledge and associated skills are applied for the safe maintenance of HV power system circuit breakers and maintained to ensure completion in agreed timeframes, to quality standards and with minimum waste in accordance with workplace procedures.

2.7 Maintenance of HV power system circuit breakers is performed in accordance with work schedules, job requirements and workplace procedures.

2.8 Maintenance of HV power system circuit breakers is completed in agreed timeframes, to quality standards and with minimum waste in accordance with workplace procedures.

2.9 Unplanned events or conditions are responded to in accordance with established procedures.

3 Complete the maintenance of HV power system circuit breakers

3.1 Completed work is checked against work schedule, construction plans and drawings for compliance and anomalies are reported in accordance with workplace procedures.

3.2 Safe working documentation is surrendered and HV power system circuit breakers are made ready for service in accordance with workplace procedures.

3.3 Worksite is cleaned and confirmed safe in accordance with workplace procedures.

3.4 Tools, equipment, surplus resources and materials are, where appropriate, cleaned, checked and returned to storage in accordance with workplace procedures.

3.5 Work records, reports and/or documentation are completed in accordance with workplace procedures and relevant personnel notified.

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 UETTDRSB24A Maintain high voltage power system circuit breakers.

Links