UEP40618 Certificate IV in Large Scale Wind Generation - Electrical

Release 1
UEP40618 Certificate IV in Large Scale Wind Generation - Electrical

Modification History

Release 1. This is the first release of this qualification in the UEP - Electricity Supply Industry - Generation Sector Training Package.

Qualification Description

Participants gaining this qualification will be able to operate, test, find and diagnose faults and alter and repair electrical equipment and systems associated with large scale wind power generation. It may also include the supervision of others and the coordination of work activities.

This qualification may meet the requirements for a Restricted Electricians Licence (Electrical Fitter). Licensing requirements should be confirmed with the relevant state/territory licensing and regulatory authorities.

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

Entry Requirements

There are no entry requirements for this qualification.

Packaging Rules

A total 1280 weighting points comprising 900 core weighting points, plus 380 elective weighting points from the general elective units listed below.

Choose a total of 380 weighting point from the general elective units list below of which between 0 and 60 weighting points can be taken from Group A. A total of 120 weighting points can be selected from Group B. Between 260 and 380 weighting points may be taken from Group C, you may select all your elective units from this group.

Up to 60 weighting points of the general elective units Group A, may be selected, with appropriate contextualisation, from any relevant nationally endorsed Training Package or accredited course, provided that selected units contribute to the vocational outcome of the qualification. Previously assigned weighting points are listed in UEP CVIG, if not listed weighting points will be 10 points unless directed from the ESI Generation Industry Reference Committee (IRC). The general elective units must contribute to the vocational outcomes of the qualification.

Where imported units are selected, care must be taken to ensure that all prerequisite units specified are complied with.

Where a prerequisite unit is attached to a unit, it is identified by this symbol ▼.
<table>
<thead>
<tr>
<th>Core units</th>
<th>Weighting points</th>
</tr>
</thead>
<tbody>
<tr>
<td>UEENEEE101A Apply Occupational, Health and</td>
<td>20</td>
</tr>
<tr>
<td>Safety regulations, codes and practices in the</td>
<td></td>
</tr>
<tr>
<td>workplace</td>
<td></td>
</tr>
<tr>
<td>UEENEEE102A Fabricate, assemble and dismantle</td>
<td>40</td>
</tr>
<tr>
<td>utilities industry components</td>
<td></td>
</tr>
<tr>
<td>UEENEEE104A Solve problems in D.C. circuits</td>
<td>80</td>
</tr>
<tr>
<td>UEENEEE105A Fix and secure electrotechnology</td>
<td>20</td>
</tr>
<tr>
<td>equipment</td>
<td></td>
</tr>
<tr>
<td>UEENEEE107A Use drawings, diagrams, schedules,</td>
<td>40</td>
</tr>
<tr>
<td>standards, codes and specifications</td>
<td></td>
</tr>
<tr>
<td>UEENEEE117A Implement and monitor energy sector</td>
<td>20</td>
</tr>
<tr>
<td>OHS policies and procedures</td>
<td></td>
</tr>
<tr>
<td>UEENEEE185A Write work activity reports</td>
<td>20</td>
</tr>
<tr>
<td>UEENEEE137A Document and apply measures to</td>
<td>20</td>
</tr>
<tr>
<td>control OHS risks associated with electrotech-</td>
<td></td>
</tr>
<tr>
<td>nology work</td>
<td></td>
</tr>
<tr>
<td>UEENEEE038B Participate in development and</td>
<td>20</td>
</tr>
<tr>
<td>follow a personal competency development plan</td>
<td></td>
</tr>
<tr>
<td>UEENEEG006A Solve problems in single and three</td>
<td>80</td>
</tr>
<tr>
<td>phase low voltage machines</td>
<td></td>
</tr>
<tr>
<td>UEENEEE101A Apply Occupational, Health and</td>
<td></td>
</tr>
<tr>
<td>Safety regulations, codes and practices in the</td>
<td></td>
</tr>
<tr>
<td>workplace</td>
<td></td>
</tr>
<tr>
<td>UEENEEE102A Fabricate, dismantle, assemble of</td>
<td></td>
</tr>
<tr>
<td>electrotechnology components</td>
<td></td>
</tr>
<tr>
<td>UEENEEE104A Solve problems in D.C circuits</td>
<td></td>
</tr>
<tr>
<td>UEENEEE105A Fix and secure electrotechnology</td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
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<td>-----------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>UEENEEG033A</td>
<td>Solve problems in single and three phase low voltage electrical apparatus and circuits</td>
</tr>
<tr>
<td></td>
<td>UEENEEE101A Apply Occupational, Health and Safety regulations, codes and practices in the workplace</td>
</tr>
<tr>
<td></td>
<td>UEENEEE102A Fabricate, dismantle, assemble of electrotechnology components</td>
</tr>
<tr>
<td></td>
<td>UEENEEE104A Solve problems in D.C circuits</td>
</tr>
<tr>
<td></td>
<td>UEENEEE105A Fix and secure electrotechnology equipment</td>
</tr>
<tr>
<td></td>
<td>UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications</td>
</tr>
<tr>
<td></td>
<td>UEENEEG101A Solve problems in electromagnetic devices and related circuits</td>
</tr>
<tr>
<td></td>
<td>UEENEEG102A Solve problems in low voltage A.C. circuit</td>
</tr>
<tr>
<td></td>
<td>UEENEEG106A Terminate cables, cords and accessories for low voltage circuits</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>UEENEEG063A</td>
<td>Arrange circuits, control and protection for general electrical installations</td>
<td>40</td>
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<tr>
<td></td>
<td>UEENEEE101A Apply Occupational, Health and Safety regulations, codes and practices in the workplace</td>
<td></td>
</tr>
<tr>
<td></td>
<td>UEENEEE102A Fabricate, dismantle, assemble of electrotechnology components</td>
<td></td>
</tr>
<tr>
<td></td>
<td>UEENEEE104A Solve problems in D.C circuits</td>
<td></td>
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<tr>
<td></td>
<td>UEENEEE105A Fix and secure electrotechnology equipment</td>
<td></td>
</tr>
<tr>
<td></td>
<td>UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications</td>
<td></td>
</tr>
<tr>
<td></td>
<td>UEENEEG101A Solve problems in electromagnetic devices and related circuits</td>
<td></td>
</tr>
</tbody>
</table>
devices and related circuits

- UEEENEEG102A Solve problems in low voltage A.C. circuit
- UEEENEEG106A Terminate cables, cords and accessories for low voltage circuits

**UEENEG101A** Solve problems in electromagnetic devices and related circuits 60

- UEEENEE101A Apply Occupational, Health and Safety regulations, codes and practices in the workplace
- UEEENEE104A Solve problems in D.C. circuits

**UEENEG102A** Solve problems in low voltage A.C. circuits 80

- UEEENEE101A Apply Occupational, Health and Safety regulations, codes and practices in the workplace
- UEEENEE104A Solve problems in D.C. circuits
- UEEENEG101A Solve problems in electromagnetic devices and related circuits

**UEENEG106A** Terminate cables, cords and accessories for low voltage circuits 40

- UEEENEE101A Apply Occupational, Health and Safety regulations, codes and practices in the workplace
- UEEENEE102A Fabricate, assemble and dismantle utilities industry components
- UEEENEE105A Fix and secure electrotechnology equipment
- UEEENEE107A Use drawings, diagrams, schedules, standards, codes and specifications

**UEENEG108A** Troubleshoot and repair faults in low voltage electrical apparatus and circuits 40

- UEEENEE101A Apply Occupational, Health and Safety regulations, codes and practices in the workplace
- UEEENEE102A Fabricate, dismantle, assemble of utilities components
- UEEENEE104A Solve problems in D.C. circuits
- UEEENEE105A Fix and secure electrotechnology equipment
- UEEENEE107A Use drawings, diagrams, schedules, standards, codes and specifications
- UEENEEG006A Solve problems in single and three phase low voltage machines
- UEENEEG033A Solve problems in single and three phase electrical apparatus and circuits
- UEENEEG063A Arrange circuits, control and protection for general electrical installations
- UEENEEG101A Solve problems in electromagnetic devices and related circuits
- UEENEEG102A Solve problems in low voltage A.C. circuits
- UEENEEG106A Terminate cables, cords and accessories for low voltage circuits

UEENEEG109A Develop and connect electrical control circuits

- UEENEEE101A Apply Occupational, Health and Safety regulations, codes and practices in the workplace
- UEENEEE102A Fabricate, dismantle, assemble of electrotechnology components
- UEENEEE104A Solve problems in D.C circuits
- UEENEEE105A Fix and secure electrotechnology equipment
- UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications
- UEENEEG006A Solve problems in single and three phase low voltage machines
- UEENEEG063A Arrange circuits, control and protection for general electrical installations
- UEENEEG101A Solve problems in electromagnetic devices and related circuits
- UEENEEG102A Solve problems in low voltage A.C. circuit
- UEENEEG106A Terminate cables, cords and accessories for low voltage circuit

UEENEEG199A Conduct compliance and functional verification of electrical apparatus and existing circuits

- UEENEEE101A Apply Occupational, Health and Safety regulations, codes and practices in the workplace
- UEENEEE102A Fabricate, dismantle and assemble and utilities 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 electrical apparatus and circuits

UEENEEG063A Arrange circuits, control and protection for general electrical installations

UEENEEG101A Solve problems in electromagnetic devices and related circuits

UEENEEG102A Solve problems in low voltage A.C. circuits

UEENEEG106A Terminate cables, cords and accessories for low voltage circuits

UEENEEG108A Troubleshoot and repair faults in electrical apparatus and circuits

UEENEEG109A Develop and connect electrical control circuits

UEENEEK145A Implement and monitor energy sector environmental and sustainable policies and procedures

UEPMNT202 Carry out routine work activities in an ESI large scale wind generation environment

UEPMNT371 Maintain large scale wind turbine generators

**Group A elective units**

UEENECC001B Maintain documentation

UEENECC010B Deliver a service to customers

UEENEED101A Use computer applications relevant to a workplace

UEENEEE101A Apply Work, Health Safety regulations, codes and practices in the workplace.
UEENEEE009B  Comply with scheduled and preventative maintenance program processes  

Group B elective units  

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Weighting points</th>
</tr>
</thead>
<tbody>
<tr>
<td>UEENED104A</td>
<td>Use engineering applications software on personal computers</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>□ UEENEEE101A Apply Work, Health Safety regulations, codes and practices in the workplace</td>
<td></td>
</tr>
<tr>
<td>UEENEEI116A</td>
<td>Assemble, enter and verify operating instructions in microprocessor equipped devices</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>□ UEENEEE101A Apply Work, Health Safety regulations, codes and practices in the workplace</td>
<td></td>
</tr>
<tr>
<td>UEENEEI150A</td>
<td>Develop, enter and verify discrete control programs for programmable controllers</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>□ UEENEEE101A Apply Occupational, Health and Safety regulations, codes and practices in the workplace</td>
<td></td>
</tr>
<tr>
<td>UEENEEF102A</td>
<td>Install and maintain cabling for multiple access to telecommunication services</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>□ UEENEEE101A Apply Occupational, Health and Safety regulations, codes and practices in the workplace</td>
<td></td>
</tr>
<tr>
<td></td>
<td>□ UEENEEE102A Fabricate, assemble and dismantle utilities industry components</td>
<td></td>
</tr>
<tr>
<td></td>
<td>□ UEENEEE104A Solve problems in D.C. circuits</td>
<td></td>
</tr>
<tr>
<td></td>
<td>□ UEENEEE105A Fix and secure electrotechnology equipment</td>
<td></td>
</tr>
<tr>
<td></td>
<td>□ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications</td>
<td></td>
</tr>
<tr>
<td>UEENEEF104A</td>
<td>Install and modify performance data communication copper cabling</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>□ UEENEEE101A Apply Occupational, Health and Safety regulations, codes and practices in the workplace</td>
<td></td>
</tr>
<tr>
<td></td>
<td>□ UEENEEE102A Fabricate, assemble and dismantle utilities industry components</td>
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<tr>
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<td>□ UEENEEE104A Solve problems in D.C. circuits</td>
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<td></td>
<td>□ UEENEEE105A Fix and secure electrotechnology equipment</td>
<td></td>
</tr>
<tr>
<td></td>
<td>□ UEENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications</td>
<td></td>
</tr>
</tbody>
</table>
standards, codes and specifications

UEENEEF102A Install and maintain cabling for multiple access to telecommunication services

UEENEEF107A Set up and configure the wireless capabilities of communications and data storage devices

UEENEEE101A Apply Occupational, Health and Safety regulations, codes and practices in the workplace

UEENEEF108A Select and arrange equipment for wireless communication networks

UEENEEE101A Apply Occupational, Health and Safety regulations, codes and practices in the workplace

UEENEEF111A Test, report and rectify faults in data and voice installations

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

UEENEEF102A Install and maintain cabling for multiple access to telecommunication services

UEENEEF104A Install and modify performance data communication copper cabling

UEENEEF105A Install and modify optical fibre performance data communication cabling

UEENEEG110A Find and repair faults in L.V. D.C. electrical apparatus and circuits

UEENEEE101A Apply Occupational, Health and Safety regulations, codes and practices in the workplace

UEENEEE102A Fabricate, dismantle, assemble of utilities components

UEENEEE104A Solve problems in D.C circuits

UEENEEE105A Fix and secure electrotechnology equipment

UEENEEE107A Use drawings, diagrams, schedules,
standards, codes and specifications

- UEEENEG006A Solve problems in single and three phase low voltage machines
- UEEENEG033A Solve problems in single and three phase electrical apparatus and circuits
- UEEENEG063A Arrange circuits, control and protection for general electrical installations
- UEEENEG101A Solve problems in electromagnetic devices and related circuits
- UEEENEG102A Solve problems in low voltage A.C. circuit
- UEEENEG106A Terminate cables, cords and accessories for low voltage circuits
- UEEENEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits

**UEENEEG111A** Carry out basic repairs to electrical components and equipment

- UEEENEE101A Apply Occupational, Health and Safety regulations, codes and practices in the workplace
- UEEENEE102A Fabricate, assemble and dismantle utilities industry components

**UEENEEG116A** Diagnose and rectify faults in traction lift systems

- UEEENEE101A Apply Occupational, Health and Safety regulations, codes and practices in the workplace
- UEEENEE102A Fabricate, dismantle, assemble of utilities components
- UEEENEE104A Solve problems in D.C circuits
- UEEENEE105A Fix and secure electrotechnology equipment
- UEEENEE107A Use drawings, diagrams, schedules, standards, codes and specifications
- UEEENEEG006A Solve problems in single and three phase low voltage machines
- UEEENEEG033A Solve problems in single and three phase electrical apparatus and circuits
- UEEENEEG063A Arrange circuits, control and protection for general electrical installations
- UEEENEG101A Solve problems in electromagnetic
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UEENEEG102A</td>
<td>Solve problems in low voltage A.C. circuit</td>
</tr>
<tr>
<td>UEENEEG106A</td>
<td>Terminate cables, cords and accessories for low voltage circuits</td>
</tr>
<tr>
<td>UEENEEG108A</td>
<td>Troubleshoot and repair faults in low voltage electrical apparatus and circuits</td>
</tr>
<tr>
<td>UEENEEG129A</td>
<td>Overhaul and repair major switchgear and control gear</td>
</tr>
<tr>
<td>UEENEEE101A</td>
<td>Apply Occupational, Health and Safety regulations, codes and practices in the workplace</td>
</tr>
<tr>
<td>UEENEEE102A</td>
<td>Fabricate, dismantle, assemble of utilities components</td>
</tr>
<tr>
<td>UEENEEE104A</td>
<td>Solve problems in D.C circuits</td>
</tr>
<tr>
<td>UEENEEE105A</td>
<td>Fix and secure electrotechnology equipment</td>
</tr>
<tr>
<td>UEENEEE107A</td>
<td>Use drawings, diagrams, schedules, standards, codes and specifications</td>
</tr>
<tr>
<td>UEENEEG111A</td>
<td>Carry out basic repairs to electrical components and equipment</td>
</tr>
<tr>
<td>UEENEEG164A</td>
<td>Repair and maintain mechanical components of electrical machines</td>
</tr>
<tr>
<td>UEENEEG157A</td>
<td>Conduct electrical tests on L.V. electrical machines</td>
</tr>
<tr>
<td>UEENEEE101A</td>
<td>Apply Occupational, Health and Safety regulations, codes and practices in the workplace</td>
</tr>
<tr>
<td>UEENEEE102A</td>
<td>Fabricate, assemble and dismantle utilities industry components</td>
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<td>Solve problems in D.C. circuits</td>
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<td>UEENEEE107A</td>
<td>Use drawings, diagrams, schedules, standards, codes and specifications</td>
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<tr>
<td>UEENEEG006A</td>
<td>Solve problems in single and three phase low voltage machines</td>
</tr>
<tr>
<td>UEENEEG101A</td>
<td>Solve problems in electromagnetic devices and related circuits</td>
</tr>
<tr>
<td>UEENEEG102A</td>
<td>Solve problems in low voltage A.C. circuits</td>
</tr>
<tr>
<td>UEENEEG106A</td>
<td>Terminate cables, cords and...</td>
</tr>
</tbody>
</table>
accessories for low voltage circuits

- UENEEG150A Wind electrical coils
- UENEEG151A Place and connect electrical coils
- UENEEG153A Rewind three phase low voltage induction machines
- UENEEG033A Solve problems in single and three phase electrical apparatus and circuits
- UENEEG063A Arrange circuits, control and protection for general electrical installations
- UENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits

UENEEG159A Conduct mechanical tests on electrical machines and components

- UENEEG157A Conduct electrical tests on LV electrical machines
- UENEEE101A Apply Occupational, Health and Safety regulations, codes and practices in the workplace
- UENEEE102A Fabricate, assemble and dismantle utilities industry components
- UENEEE104A Solve problems in D.C. circuits
- UENEEE105A Fix and secure electrotechnology equipment
- UENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications
- UENEEG006A Solve problems in single and three phase low voltage machines
- UENEEG101A Solve problems in electromagnetic devices and related circuits
- UENEEG102A Solve problems in low voltage A.C. circuits
- UENEEG106A Terminate cables, cords and accessories for low voltage circuits
- UENEEG150 Wind electrical coils
- UENEEG151 Place and connect electrical coils
- UENEEG153 Rewind three phase low voltage induction machines
- UENEEG033A Solve problems in single and three phase electrical apparatus and circuits
UEENEEG063A Arrange circuits, control and protection for general electrical installations

UEENEEG108AA Troubleshoot and repair faults in low voltage electrical apparatus and circuits

UEENEEG164A Repair and maintain mechanical components of electrical machines

- UEENEE101A Apply Occupational, Health and Safety regulations, codes and practices in the workplace
- UEENEE102A Fabricate, assemble and dismantle utilities industry components
- UEENEE105A Fix and secure electrotechnology equipment
- UEENEE107A Use drawings, diagrams, schedules, standards, codes and specifications
- UEENEG111A Carry out basic repairs to electrical components and equipment

UEENEEG165A Maintain and service traction lifts systems and equipment

- UEENEE101A Apply Occupational, Health and Safety regulations, codes and practices in the workplace
- UEENEE102A Fabricate, dismantle, assemble of utilities components
- UEENEE104A Solve problems in D.C circuits
- UEENEE105A Fix and secure electrotechnology equipment
- UEENEE107A Use drawings, diagrams, schedules, standards, codes and specifications
- UEENEEG006A Solve problems in single and three phase low voltage machines
- UEENEEG033A Solve problems in single and three phase electrical apparatus and circuits
- UEENEEG063A Arrange circuits, control and protection for general electrical installations
- UEENEEG101A Solve problems in electromagnetic devices and related circuits
- UEENEEG102A Solve problems in low voltage A.C. circuit
- UEENEEG106A Terminate cables, cords and accessories for low voltage circuits
\( \text{UEENEEG108A} \) Troubleshoot and repair faults in low voltage electrical apparatus and circuits

\( \text{UEENEEG116A} \) Diagnose and rectify faults in traction lift systems

**UEENEEH102A** Repair basic electronic apparatus faults by replacement of components

\( \text{UEENEEE101A} \) Apply Occupational, Health and Safety regulations, codes and practices in the workplace

\( \text{UEENEEE102A} \) Fabricate, dismantle, assemble of utilities industry components

**UEENEEH111A** Troubleshoot single phase input D.C. power supplies

\( \text{UEENEEE101A} \) Apply Occupational, Health and Safety regulations, codes and practices in the workplace

\( \text{UEENEEE104A} \) Solve problems in D.C. circuits

\( \text{UEENEEH102A} \) Repair basic electronic apparatus faults by replacement of components

\( \text{UEENEEH114A} \) Troubleshoot resonance circuits in an electronic apparatus

\( \text{UEENEEE119A} \) Solve problems in multiple path extra low voltage (ELV) A.C. circuits

\( \text{UEENEEH169A} \) Solve problems in basic electronic circuits

\( \text{UEENEEG101A} \) Solve problems in electromagnetic devices and related circuits

\( \text{UEENEEG102A} \) Solve problems in low voltage A.C. circuits

**UEENEEI101A** Use instrumentation drawings, specifications, standards and equipment manuals

\( \text{UEENEEE101A} \) Apply Work, Health Safety regulations, codes and practices in the workplace

\( \text{UEENEEE107A} \) Use drawings, diagrams, schedules, standards, codes and specifications

**UEENEEK142A** Apply environmentally and sustainable procedures in the energy sector

**UETTDRIS44A** Perform H.V. field switching operation to a given schedule

\( \text{UEENEEE101A} \) Apply Occupational, Health and
Safety regulations, codes and practices in the workplace

- UENEEE102A Fabricate, assemble and dismantle utilities industry components
- UENEEE104A Solve problems in D.C. circuits
- UENEEE105A Fix and secure electrotechnology equipment
- UENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications
- UENEEG101A Solve problems in electromagnetic devices and related circuits
- UENEEG102A Solve problems in low voltage A.C. Circuits
- UETTDREL16A Working safely near live electrical apparatus

**Transmission Overhead Pathway Group**

- UETTDREL11A Apply sustainable energy and environmental procedures
- UETTDREL12A Operate plant and equipment near live electrical conductors and apparatus
- UETTDRIS54A Install and maintain poles, structures and overhead conductors and cables
- UETTDRTP26A Install transmission structures and associated hardware
- UETTDRTP27A Maintain transmission structures and associated hardware
- UETTDRTP29A Install and maintain transmission overhead conductors and cables

**Distribution Overhead Pathway Group**

- UETTDREL11A Apply sustainable energy and environmental procedures
- UETTDRDP12A Maintain overhead energised low voltage conductors and cables
- UETTDREL12A Operate plant and equipment near live electrical conductors and apparatus
- UETTDRIS41A Install network infrastructure electrical equipment
- UETTDRIS42A Maintain network infrastructure electrical equipment
- UETTDRIS52A Install and maintain poles, structures
and associated hardware

- UETTDRIS54A Install and maintain poles, structures and overhead conductors and cables

- UETTDRIS56A Install and maintain low voltage overhead services

**Rail Traction Pathway Group**

- UETTDELR11A Apply sustainable energy and environmental procedures

- UETTDELR12A Operate plant and equipment near live electrical conductors and apparatus

- UETTDRIS52A Install and maintain poles, structures and associated hardware

- UETTDRIS54A Install and maintain poles, structures and overhead conductors and cables

- UETTDRRT21A Install traction overhead wiring systems

- UETTDRRT22A Maintain traction overhead wiring systems

- UETTDRRT23A Install rail traction bonds

- UETTDRRT27A Install overhead traction components and equipment

- UETTDRRT28A Maintain overhead traction components and equipment

**Distribution Cable Jointing Pathway Group**

- UETTDCJ21A Lay ESI electrical cables

- UETTDCJ26A Install and maintain deenergised low voltage underground polymeric cables.

- UETTDCJ27A Install and maintain deenergised high voltage underground polymeric cables.

- UETTDELR11A Apply sustainable energy and environmental procedures

- UETTDELR12A Operate plant and equipment near live electrical conductors and apparatus

- UETTDRIS41A Install network infrastructure electrical equipment

- UETTDRIS42A Maintain network infrastructure electrical equipment

- UETTDRIS55A Install and maintain low voltage underground services
Electrical Pathway Group

- UEEEEE137A Document and apply measures to control OHS risks associated with electrotechnology work
- UEEEG006A Solve problems in single and three phase low voltage machines
- UEEEG033A Solve problems in single and three phase electrical apparatus and circuits
- UEEEG063A Arrange circuits, control and protection for general electrical installations
- UEEEG106A Terminate cables, cords and accessories for low voltage circuits
- UEEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits
- UEEEG109A Develop and connect electrical control circuits
- UEEEEK142A Apply environmentally and sustainable energy procedures in the energy sector
- UETDRIS67A Solve problems in energy supply network equipment

UETTDREL16A Working safely near live electrical apparatus 20

UEPOPS301 Conduct single energy source isolation procedures for permit to work 40

UEPOPS349 Operate local H.V. switchgear 40

UEPMNT369 Monitor climatic conditions for renewable electricity generation 40

UEPMNT370 Maintain and monitor wind farm civil assets 40

- UEEEEK142A Apply environmental and sustainable procedures in the energy sector
- UEEEEE102A Fabricate, assemble and dismantle utilities industry components

Group C elective units

UEPMNT442 Maintain wind turbine generator electrical systems 60

- UEPMT371 Maintain large scale wind turbine generators

Weighting points
- UENEENEG006A Solve problems in single and three phase low voltage machines
- UENEENEE102A Fabricate, dismantle, assemble of electrotechnology components
- UENEENEE104A Solve problems in D.C circuits
- UENEENEE105A Fix and secure electrotechnology equipment
- UENEENEE107A Use drawings, diagrams, schedules, standards, codes and specifications
- UENEENEG101A Solve problems in electromagnetic devices and related circuits
- UENEENEG102A Solve problems in low voltage A.C. circuit
- UENEENEG106A Terminate cables, cords and accessories for low voltage circuits

UEPMNT443 Maintain wind turbine generator control systems 60
- UEPMT371 Maintain large scale wind turbine generators

UEPMNT444 Maintain wind turbine generator mechanical systems 60
- UEPMT371 Maintain large scale wind turbine generators

UEPMNT445 Diagnose and repair faults in large scale wind turbine generators 60
- UEPMT371 Maintain large scale wind turbines generators
- UENEENEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits
- UENEENEE102A Fabricate, dismantle, assemble of utilities industry components
- UENEENEE104A Solve problems in D.C. circuits
- UENEENEE105A Fix and secure electrotechnology equipment
- UENEENEE107A Use drawings, diagrams, schedules, standards, codes and specifications
- UENEENEG006A Solve problems in single and three phase low voltage machines
- UENEENEG033A Solve problems in single and three phase low voltage electrical apparatus and circuits
 UEPMNT446  Coordinate maintenance on a wind farm  60

 UEPMNT445  Diagnose and repair faults in large scale wind turbine generators

 UEPMNT448  Diagnose and repair faults in wind turbine generator control systems

 UEPMNT449  Diagnose and repair faults in wind turbine generator mechanical systems

 UEPMNT371  Maintain large scale wind turbines generators

 UEENEEG108A  Troubleshoot and repair faults in low voltage electrical apparatus and circuits

 UEENE102A  Fabricate, dismantle, assemble of utilities industry components

 UEENEE104A  Solve problems in D.C. circuits

 UEENE105A  Fix and secure electrotechnology equipment

 UEENEEG107  Use drawings, diagrams, schedules, standards, cords and specifications

 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

 UEENEEG101A  Solve problems in electromagnetic devices and related circuits

 UEENEEG102A  Solve problems in low voltage A.C. circuits

 UEENEEG106A  Terminate cables, cords and accessories for low voltage circuits
control systems

- UEENEEE107A Use drawings, diagrams, schedules, standards, cords and specifications
- UEPMNT444 Maintain wind turbine generator mechanical systems

**UEPMNT447**

Diagnose and repair faults in wind turbine generator electrical systems

- UEPMNT371 Maintain large scale wind turbine generators
- UEPMNT442 Maintain wind turbine generator electrical systems
- UEPMNT445 Diagnose and repair faults in large scale wind turbine generators

**UEENEE102A** Fabricate, dismantle, assemble of electrotechnology components

- UEENEE104A Solve problems in D.C circuits
- UEENEE105A Fix and secure electrotechnology equipment
- UEENEE107A Use drawings, diagrams, schedules, standards, codes and specifications
- 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
- UEENEEG101A Solve problems in electromagnetic devices and related circuits
- UEENEEG102A Solve problems in low voltage A.C. circuits
- UEENEEG106A Terminate cables, cords and accessories for low voltage circuits
- UEENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits

**UEPMNT448**

Diagnose and repair faults in wind turbine generator control systems

- UEPMNT371 Maintain large scale wind turbine generators
- UEPMNT443 Maintain wind turbine generator...
control systems

- UEMPNT445 Diagnose and repair faults in large scale wind turbine generators
- UEENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits
- UEENEEE102A Fabricate, dismantle, assemble of 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
- 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
- UEENEEG101A Solve problems in electromagnetic devices and related circuits
- UEENEEG102A Solve problems in low voltage A.C. circuits
- UEENEEG106A Terminate cables, cords and accessories for low voltage circuit

UEPMNT449
Diagnose and repair mechanical systems faults in wind turbine generators

- UEMPNT371 Maintain large scale wind turbines generators
- UEMPNT444 Maintain wind turbine generator mechanical systems
- UEMPNT445 Diagnose and repair faults in large scale wind turbine generators
- UEENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits
- UEENEEE102A Fabricate, dismantle, assemble of utilities industry components
- UEENEEE104A Solve problems in D.C. circuits
- UEENEEE105A Fix and secure electrotechnology equipment
- UENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications
- UENEEG006A Solve problems in single and three phase low voltage machines
- UENEEG033A Solve problems in single and three phase low voltage electrical apparatus and circuits
- UENEEG063A Arrange circuits, control and protection for general electrical installations
- UENEEG101A Solve problems in electromagnetic devices and related circuits
- UENEEG102A Solve problems in low voltage A.C. circuits
- UENEEG106A Terminate cables, cords and accessories for low voltage circuits

**UEPMNT450**

- UEMPNT371 Maintain large scale wind turbine generators
- UEMPNT444 Maintain wind turbine generator mechanical systems
- UEMPNT443 Maintain wind turbine generator control systems
- UEMPNT448 Diagnose and repair faults in wind turbine generator control systems
- UEMPNT449 Diagnose and repair mechanical systems faults in wind turbine generators
- UEMPNT445 Diagnose and repair faults in large scale wind turbine generators
- UENEEG108A Troubleshoot and repair faults in low voltage electrical apparatus and circuits
- UENEEE102A Fabricate, dismantle, assemble of utilities industry components
- UENEEE104A Solve problems in D.C. circuits
- UENEEE105A Fix and secure electrotechnology equipment
- UENEEE107A Use drawings, diagrams, schedules, standards, codes and specifications
- UENEEG006A Solve problems in single and three phase low voltage machines
- UENEEG033A Solve problems in single and three phase low voltage electrical apparatus and circuits
phase low voltage electrical apparatus and circuits

- UENEENG063A Arrange circuits, control and protection for general electrical installations
- UENEENG101A Solve problems in electromagnetic devices and related circuits
- UENEENG102A Solve problems in low voltage A.C. circuits
- UENEENG106A Terminate cables, cords and accessories for low voltage circuits

UEPOPS402 Conduct multiple energy source isolation procedures for permit to work 40
- UEPOPS301 Conduct single energy source isolation procedures for permit to work.

UEPOPS424 Coordinate local H.V. networks 30
UEPOPS428 Develop H.V. switching programs 20
UEPOPS456 Perform switching to a switching program 30

**Qualification Mapping Information**

This qualification replaces and is equivalent to UEP40612 Certificate IV in Large Scale Wind Generation - Electrical

**Links**

Companion Volume implementation guides are found in VETNet - https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9e825a8