



Australian Government

UEE30720 Certificate III in Switchgear and Controlgear

Release 2

UEE30720 Certificate III in Switchgear and Controlgear

Modification History

Release 2. Updated superseded HLT, BSB and ICT elective units.

Release 1. This is the first release of this qualification in the UEE Electrotechnology Training Package

Qualification Description

This qualification provides competencies for the construction, assembly and wiring of switchboards and control panels.

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 of **1060 weighting points** comprising:

900 core weighting points listed below; **plus**

160 general elective weighting points from the general elective units listed below.

Choose a total of **160 weighting points** elective units from the list below, of which between 0 and 60 **weighting points** can be taken from Group A; and between 100 and 160 **weighting points** can be taken from Group B (or all **160 elective weighting points** can be taken from Group B).

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 selected units contribute to the vocational outcome of the qualification. Previously assigned weighting points are listed in the UEE Electrotechnology Training Package Companion Volume Implementation Guide (CVIG), if not listed weighting points will be 10 points, unless directed from the Electrotechnology Industry Reference Committee (IRC).

There are units of competency within this qualification that contain pre-requisites. Units of competency that have a pre-requisite requirement are identified by this symbol *. Refer directly to the units of competency to identify pre-requisite requirements to ensure all are complied with. A list of all pre-requisites is also provided in the UEE Pre-requisite Companion Volume.

Where imported units are selected, care must be taken to ensure all pre-requisite units specified

are complied with.

| Core units | | Weighting Points |
|-------------------|--|-------------------------|
| UEEAS0007 | Assemble, mount and connect control gear and switchgear* | 40 |
| UEEAS0008 | Fabricate and assemble bus bars* | 40 |
| UEEAS0009 | Mount and wire control panel equipment* | 40 |
| UEECD0007 | Apply work health and safety regulations, codes and practices in the workplace | 20 |
| UEECD0016 | Document and apply measures to control WHS risks associated with electrotechnology work* | 20 |
| UEECD0019 | Fabricate, assemble and dismantle utilities industry components* | 40 |
| UEECD0020 | Fix and secure electrotechnology equipment* | 20 |
| UEECO0024 | Participate in switchgear and control gear work and competency development activities | 60 |
| UEECD0043 | Solve problems in direct current circuits* | 80 |
| UEECD0051 | Use drawings, diagrams, schedules, standards, codes and specifications* | 40 |
| UEEEL0003 | Arrange circuits, control and protection for electrical installations* | 40 |
| UEEEL0004 | Carry out basic repairs to electrical components and equipment* | 40 |
| UEEEL0005 | Develop and connect electrical control circuits* | 80 |
| UEEEL0019 | Solve problems in direct current (d.c.) machines* | 30 |
| UEEEL0020 | Solve problems in low voltage a.c. circuits* | 80 |
| UEEEL0021 | Solve problems in magnetic and electromagnetic devices* | 30 |
| UEEEL0023 | Terminate cables, cords and accessories for low voltage circuits* | 40 |
| UEEEL0024 | Test and connect alternating current (a.c.) rotating machines* | 50 |

| | | |
|-----------|--|----|
| UEEEL0025 | Test and connect transformers* | 30 |
| UEERE0001 | Apply environmentally and sustainable procedures in the energy sector | 20 |
| UEERL0004 | Disconnect - reconnect electrical equipment connected to low voltage (LV) installation wiring* | 60 |

Group A: Imported and common elective units**Weighting Points**

| | | |
|-------------|--|----|
| BSBOPS203 | Deliver a service to customers | 20 |
| CPCCWHS1001 | Prepare to work safely in the construction industry | 10 |
| HLTAID009 | Provide cardiopulmonary resuscitation | 10 |
| HLTAID011 | Provide First Aid | 10 |
| ICTICT214 | Operate application software packages | 20 |
| UEECD0011 | Comply with scheduled and preventative maintenance program processes | 20 |
| UEECD0035 | Provide basic instruction in the use of electrotechnology apparatus | 20 |
| UEECO0002 | Maintain documentation | 20 |
| UEECO0017 | Source and purchase material/parts for installation or service jobs | 20 |
| UEECO0015 | Provide quotations for installation or service jobs | 20 |

Group B: General elective units**Weighting Points**

| | | |
|-----------|---|----|
| UEECS0033 | Use engineering applications software on personal computers | 40 |
| UEEDV0001 | Assemble and connect telecommunication frames and cabinets* | 60 |
| UEEEC0060 | Repairs basic electronic apparatus faults by replacement of components* | 40 |
| UEEEC0075 | Troubleshoot single phase input d.c power supplies* | 40 |
| UEEEL0017 | Repair and maintain mechanical components of electrical machines* | 40 |

| | | |
|-----------|--|----|
| UEEEL0055 | Overhaul and repair major switchgear and control gear* | 60 |
| UEEIC0002 | Assemble, enter and verify operating instructions in microprocessor equipped devices* | 20 |
| UEEIC0013 | Develop, enter and verify discrete control programs for programmable controllers* | 60 |
| UEERL0005 | Locate and rectify faults in low voltage (LV) electrical equipment using set procedures* | 20 |

Qualification Mapping Information

This qualification replaces and is equivalent to UEE30711 Certificate III in Switchgear and Controlgear

Links

Companion Volume implementation guides are found in VETNet - -

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