

Entura's electrical maintenance course provides participants with electrical trade background to safely and efficiently operate power generating equipment and associated switchgear, including circuit reading and fault finding.

The course includes site visits to working assets for the training and assessment of maintenance and installation competency, transferring the practical and operational knowledge of experienced staff to the trainee in a structured and certified program. Mentor support from your organisation also provides for further customisation of the training program.

The practical field-based activities will include both training and assessment activities. Trainees will need to be mentored by appropriate senior staff who will need to sign off on an activity that has been completed using a WCA (workplace competency assessment) workbook.

Where required, a WCA document will be developed to assist in providing guidance for training and assessment for on-job activities. The WCA may be used to track training events as the opportunities occur in the workplace.

If the WCA is not suitable, a workplace evidence of task competence completion in the form of a portfolio will need to be gathered to support the skills development of the trainee and the ultimate successful completion of the qualification.

The assessment events will occur on a regular basis to track activity and to provide support. This component of the training should not take longer than eighteen months and is determined by the availability of mentors, and training and assessment events.

## **Completion requirements**

The requirements for granting this qualification will be met when competency is demonstrated and achieved for:

- all the core competency standard units, defined in the *Core* competency standard units table on the following page
- a combination of elective competency standard units to achieve a total weighting of 460 points in accordance with the *Elective competency standard units* table, including any associated prerequisite\* units. The prerequisite units can be included in the weighting points.

Those gaining this qualification will be able to complete work functions such as the manufacture, fit, assemble, erect, operate, test, fault find, alter, repair electrical equipment, electronic, instrumentation systems, and includes electrical wiring work only if that work is associated with assembling, maintaining, terminating or altering the wiring between electrical components within a power generating plant or machinery, maintenance planning and scheduling, supervision of others and coordination of work activities of individuals and/or teams.







## Core competency standard units

All core competency standard units to be achieved

| UEENEEE101A  | Apply occupational health and safety regulations, codes and practices in the workplace  |
|--------------|---|
| UEENEEE117A  | Implement and monitor energy sector OHS policies and procedures                         |
| UEPOPS338B   | Facilitate effective workplace communications   |
| UEPOPS371A   | Carry out operational checks on in-service electrical plant                             |
| UEPOPS417B   | Monitor and implement environmental plans and procedures                                |
| UEPOPS430B   | Control permit to work operations   |
| UEENEEE102A* | Fabricate, dismantle, assemble 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 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* | Trouble-shoot and repair faults in low voltage electrical apparatus and circuits        |
| UEENEEG109A* | Develop and connect electrical control circuits   |

## Elective competency standard units

Total weighting of 460 points

| UEPMNT346B  | Maintain electrical equipment                              | 40 |
|-------------|--|----|
| UEPMNT350B  | Modify electrical equipment                                | 40 |
| UEPMNT351B  | Test and commission electrical equipment                   | 40 |
| UEPMNT411B  | Diagnose and repair faults in complex electrical equipment | 60 |
| UEPMNT412B  | Modify complex electrical equipment                        | 60 |
| UEPMNT414B  | Test and commission complex electrical equipment           | 60 |
| UEPMNT416B  | Overhaul electrical generators                             | 80 |
| UEPMNT417B  | Inspect electrical generators and diagnose faults          | 80 |
| UEPMNT422B  | Conduct performance testing on process plant and equipment | 60 |
| UEPMNT433B  | Conduct routine generation electrical maintenance          | 60 |
| TAEDEL301A* | Provide work skill instruction                             | 40 |

<sup>\*</sup>Not provided. Credit transfer is possible with proof of attainment. Prerequisites may apply to the above units.