



UEP40312 Certificate IV in ESI Generation Maintenance (Mechanical)

Entura's mechanical maintenance course provides participants with mechanical trade background to install, repair and maintain plant and mechanical systems in power stations.

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 510 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.

Trainees gaining this qualification will be able to complete work functions such as the installation, repair and maintenance of plant and mechanical systems, maintenance planning and scheduling. This also includes the observation of safe working practices and environmental procedures, the 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

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|-------------|--|
| UEENEEE117A | Implement and monitor energy sector OHS policies and procedures |
| UEENEEE101A | Apply occupational health and safety regulations, codes and practices in the workplace |
| UEPOPS202B | Apply quality systems to work |
| UEPOPS337B | Maintain quality systems within the team |
| UEPOPS338B | Facilitate effective workplace communications |
| UEPOPS417B | Monitor and implement environmental plans and procedures |
| UEPOPS430B | Control permit to work operations |
| UEPOPS439B | Plan and organise work |
| MEM07005C* | Perform general machining |
| MEM07006C* | Perform lathe operations |
| MEM07007C* | Perform milling operations |
| MEM07008D* | Perform grinding operations |
| MEM09002B* | Interpret technical drawing |
| MEM12003B* | Perform precision mechanical measurement |
| MEM12023A* | Perform engineering measurements |
| MEM12024A* | Perform computations |
| MEM18001C* | Use hand tools |
| MEM18002B* | Use power tools/hand held operations |
| MEM18003C* | Use tools for precision work |
| MEM18006C* | Repair and fit engineering components |
| MEM18007B* | Maintain and repair mechanical drives and mechanical transmission assemblies |
| MEM18009B* | Perform levelling and alignment of machines and engineering components |
| MEM18055B* | Dismantle, replace and assemble engineering components |

Elective competency standard units

Total weighting of 510 points

| | | |
|-------------|--|-----|
| UEPMNT303B | Maintain mechanical valves | 40 |
| UEPMNT304B | Maintain mechanical pumps | 40 |
| UEPMNT314B | Maintain hydro turbines | 100 |
| UEPMNT401B | Install and maintain complex mechanical seals | 40 |
| UEPMNT402B | Conduct complex levelling and alignment | 40 |
| UEPMNT403B | Maintain complex mechanical valves | 40 |
| UEPMNT404B | Maintain complex mechanical pumps | 40 |
| UEPMNT408B | Install hydro turbines | 100 |
| MEM18010C* | Perform equipment condition monitoring and recording | 40 |
| TAEDEL301A* | Provide work skill instruction | 40 |

*Not provided. Credit transfer is possible with proof of attainment. Prerequisites may apply to the above units.