



Australian Government

UEP50312 Diploma of ESI Generation (Maintenance)

Release 3

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Modification History

Release	Action	Core/Elective	Details	Points
2	Update	Group A	BSBWHS501A Ensure a safe workplace	60
2	Update	Group C	Correct unit code MEM05024B Perform welding supervision	120

3	Edit	Core	Correct weighting points of UEPOPS416B – Monitor the implementation of the enterprise's production-maintenance quality control procedures	20
3	Edit	Core	Correct weighting points of UEPOPS439B – Plan and organise work	30
3	Edit	Core	Correct weighting points of UEPOPS440B – Coordinate team activities	30
3	Edit	Core	Correct weighting points of UEPOPS505B – Produce maintenance strategies for generation production plant	80

Description

Scope: Those gaining this qualification will be able to complete work function such as development of maintenance schedules and project management. Development of operational procedures and systems, implementation of safe working practices and environmental procedures. Management and supervision of others and coordination of work activities of individuals and/or teams

Pathways Information

Not applicable.

Licensing/Regulatory Information

Not applicable.

Entry Requirements

Not applicable.

Employability Skills Summary

Not applicable.

Packaging Rules

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 below and
- A combination of Elective competency standard units to achieve a total weighting of 1070 points in accordance with the Elective Competency Standard Units table below.

Core Competency Standard Units All core competency standard units to be achieved		Weighting Points
MEM09002B	Interpret technical drawing	40
MEM12023A	Perform engineering measurements	50
MEM18001C	Use hand tools	20
MEM18002B	Use power tools/hand held operations	20
UEPMNT421B	Conduct Technical Inspection of Process Plant and Equipment	60
UEENEEE117A	Implement and monitor energy sector OHS policies and procedures	20
UEENEEE101A	Apply Occupational Health and Safety regulations, codes and practices in the workplace	20
UEPOPS337B	Maintain Quality Systems within the Team	20
UEPOPS338B	Facilitate Effective Workplace Communications	20
UEPOPS416B	Monitor the Implementation of Enterprises Production/Maintenance Quality Control Procedures	20
UEPOPS417B	Monitor and Implement Environmental Plans and Procedures	20
UEPOPS430B	Control permit to work operations	20
UEPOPS439B	Plan and Organise Work	30
UEPOPS440B	Coordinate Team Activities	30

UEPOPS501B	Manage Occupational Health and Safety Policy and Procedures	40
UEPOPS505B	Produce Maintenance Strategies for Generation Production Plant	40
UEPOPS507B	Conduct Project Management	60
Total points in core		530

Elective Competency Standard Units

Complete Elective units to achieve a total of weighting of 1070 points from the following groups:

Group	Minimum points	Maximum points
A Imported and Common Elective Units Imported units from other training packages and/or state accredited courses can be added to this group, but they must be selected from qualifications where the unit is first packaged at AQF level 5. If units have not being assigned a weighting by the relevant EE-Oz Industry Technical Advisory Committee, their weighting will be 10 points.	0	270
B Qualification Electives You may select units from this group for qualification completion.	0	770
C Qualification Electives You may select units from this group for qualification completion.	0	120
D Qualification Electives You may select units from this group for qualification completion.	180	940

Group A - Imported and Common Elective Units. Complete units to a maximum weighting of 270 points		Weighting Points
BSBCUS501C	Manage quality customer service	40

BSBINM501A	Manage an information or knowledge management system	50
BSBINN502A	Build and sustain an innovative work environment	50
BSBLED501A	Develop a workplace learning environment	60
BSBMGT502B	Manage people performance	70
BSBMGT515A	Manage operational plan	60
BSBMGT516C	Facilitate continuous improvement	60
BSBWHS501A	Ensure a Safe Workplace	60
BSBWOR501B	Manage personal work priorities and professional development	60
BSBWOR502B	Ensure team effectiveness	60
	<p>Imported units from other training packages and/or state accredited courses can be added to this group, but they must be selected from qualifications where the unit is first packaged at AQF level 5. If units have not being assigned a weighting by the relevant EE-Oz Industry Technical Advisory Committee, their weighting will be 10 points.</p> <p>Note: For further information see Application of the NQC Flexibility Formula, Page 10, UEP12 ESI Generation Sector Training Package, Part1.1.00</p>	Up to 270 points

Group B Qualification Electives.		Weighting Points
Complete units to a maximum weighting of 770 points.		
MEM05007C	Perform manual heating and thermal cutting	20
MEM05012C	Perform routine manual metal arc welding	20
MEM05015D	Weld using manual metal arc welding process	40
MEM05017D	Weld using gas metal arc welding process	40
MEM05026C	Apply welding principles	40
MEM05050B	Perform routine gas metal arc welding	20
MEM05051A	Select welding processes	20
MEM05052A	Apply safe welding practices	40
MEM07005C	Perform general machining	80
MEM07006C	Perform lathe operations	40
MEM07007C	Perform milling operations	40
MEM07008D	Perform grinding operations	40
MEM12003B	Perform precision mechanical measurement	20
MEM12024A	Perform Computations	30
MEM18003C	Use tools for precision work	40
MEM18006C	Repair and fit engineering components	60
MEM18007B	Maintain and repair mechanical drives and mechanical transmission assemblies	40
MEM18009B	Perform levelling and alignment of machines and engineering components	40
MEM18010C	Perform equipment condition monitoring and recording	40
MEM18055B	Dismantle, replace and assemble engineering components	30
UEPMNT302B	Install and Maintain Industrial Pipework	40

UEPMNT303B	Maintain Mechanical Valves	40
UEPMNT304B	Maintain Mechanical Pumps	40
UEPMNT305B	Maintain Industrial Fans	40
UEPMNT307B	Maintain Industrial Screens, Strainers and Filters	20
UEPMNT308B	Maintain Conveyors and Associated Equipment	40
UEPMNT309B	Maintain Material Feeders	40
UEPMNT310B	Maintain Material Crushers	40
UEPMNT311B	Maintain Fuel Transport Equipment	80
UEPMNT312B	Maintain Industrial Pressure Vessels	80
UEPMNT313B	Maintain Internal Combustion Engines	100
UEPMNT314B	Maintain Hydro Turbines	100
UEPMNT315B	Maintain Wind Turbines	100
UEPMNT317B	Diagnose and Repair Faults in Mechanical Equipment	40
UEPMNT318B	Conduct Generator Mechanical Maintenance	80
UEPOPS301B	Conduct Single Energy Source Isolation Procedures for Permit to Work	40

Group C Qualification Electives		Weighting Points
Complete units to a maximum weighting of 120 points.		
MEM05016C	Perform advanced welding using manual metal arc welding process	40
MEM05018C	Perform advanced welding using gas metal arc welding process	40
MEM05024B	Perform welding supervision	120
MEM07011B	Perform complex milling operations	40
MEM07012B	Perform complex grinding operations	40

MEM07021B	Perform complex lathe operations	40
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
UEPMNT406B	Install and Maintain a Steam Turbine	100
UEPMNT407B	Install and Maintain a Gas Turbine	100
UEPMNT408B	Install Hydro Turbines	100
UEPMNT419B	Perform Civil Drafting	60
UEPMNT422B	Conduct Performance Testing on Process Plant and Equipment	60
UEPMNT424B	Monitor Efficiency of Thermal Steam Cycle Power Plant	60
UEPMNT435A	Diagnose and Repair Faults in Wind Turbine Mechanical Systems	80
UEPOPS402B	Conduct Multiple Energy Source Isolation Procedures for procedures for a Permit to Work	40

Group D Qualification Electives		Weighting Points
You must complete units to a minimum weighting of 180. You may select units to a maximum weighting of 880.		
UEPOPS502B	Manage Permit to Work System	40
UEPOPS508B	Manage Commissioning/Decommissioning	60
UEPOPS509B	Manage quality control procedures	40
UEPOPS510B	Monitor power generation plant reliability	60
UEPOPS511B	Tune Process Plant and Equipment	60
UEPOPS512B	Manage the Network/System	80

UEPOPS513B	Manage Operational Crisis to Maintain/Restore Power System Integrity	60
UEPOPS515B	Coordinate power generation	40
UEPOPS520A	Evaluate cost estimations and initiate appropriate solutions	40
UEPOPS523A	Manage critical incidents	60
UEPOPS524A	Evaluate the scheduling of generation	60
UEPOPS525A	Coordinate and direct switching program	60
UEPOPS526A	Coordinate electrical energy production	60
UEPOPS527A	Manage first response team	40
UEPOPS528A	Manage environmental management systems	40
UEPOPS529A	Manage operational strategies for power production	80

Note:

1. Prerequisite pathways shall be identified and met for all elective units selected.
2. In selecting elective units considerations to career planning advice should be given to units that form part of a prerequisite pathway for the progression to achieve particular competencies or qualification at a higher level.

END OF QUALIFICATION

Custom Content Section

Not applicable.