



Australian Government

UEP40312 Certificate IV in ESI Generation Maintenance (Mechanical)

Release: 3

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Modification History

Release	Action	Core/Elective	Details	Points
2	Update	Group A	Correct unit Title TAEDEL301A Provide work skill instruction	40
2	Update	Group A	CPCCCM2007B Use explosive power tool	15
3	Edit	Group C	Correct weighting points of UEPMNT419B – Perform civil drafting	60

Description

Scope: Those gaining this qualification will be able to complete power generation work function such as installation, repair and maintenance of plant and mechanical systems, maintenance planning and scheduling and observation of safe working practices and environmental procedures. 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 510 points in accordance with the Elective Competency Standard Units table below.

Core Competency Standard Units		Weighting Points
All core competency standard units to be achieved		
MEM07005C	Perform general machining	80
MEM07006C	Perform lathe operations	40
MEM07007C	Perform milling operations	40
MEM07008D	Perform grinding operations	40
MEM09002B	Interpret technical drawing	40
MEM12003B	Perform precision mechanical measurement	20
MEM12023A	Perform Engineering Measurements	50
MEM12024A	Perform Computations	30
MEM18001C	Use hand tools	20
MEM18002B	Use power tools/hand held operations	20
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
MEM18055B	Dismantle, replace and assemble engineering components	30

UEENEEE117 A	Implement and monitor energy sector OHS policies and procedures	20
UEENEEE101 A	Apply Occupational Health and Safety regulations, codes and practices in the workplace	20
UEPOPS202B	Apply quality systems to work	20
UEPOPS337B	Maintain Quality Systems within the Team	20
UEPOPS338B	Facilitate Effective Workplace Communications	20
UEPOPS417B	Monitor and Implement Environmental Plans and Procedures	20
UEPOPS430B	Control permit to work operations	30
UEPOPS439B	Plan and Organise Work	30
Total points in core		770

Elective Competency Standard Units

Complete Elective units to achieve a total of weighting of 510 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 4. If units have not being assigned a weighting by the relevant EE-Oz Industry Technical Advisory Committee, their weighting will be 10 points.	0	220
B Qualification Electives You may select units from this group for qualification completion.	0	310
C Qualification Electives You may select all your elective units from this Group	200	510

Group A - Imported and Common Elective Units.		Weighting Points
Complete units to a maximum weighting of 220 points		
BSBCUS401B	Coordinate implementation of customer service strategies	40
BSBINM401A	Implement workplace information system	40
BSBINN301A	Promote Innovation in a team environment	40
BSBLED401A	Develop teams and individuals	40
BSBMGT402A	Implement operational plan	40
BSBMGT403A	Implement continuous improvement	40
BSBWOR401A	Establish effective workplace relationships	50
BSBWOR402A	Promote team effectiveness	50
BSBWOR404B	Develop Work Priorities	40
CPCCCM2007B	Use Explosive Power Tools	15
CPCCLDG3001 A	Licence to perform dogging	30
CPCCLRG3001 A	License to Perform Rigging Basic Level	40
CPCCLRG3002 A	Licence to Perform Rigging Intermediate Level	40
CPCCLSF2001A	License to Erect, Alter and Dismantle Scaffolding Basic Level	40
MEM09003B	Prepare basic engineering drawing	80
MEM09004B	Perform electrical/electronic detail drafting	80
MEM09005B	Perform basic engineering detail drafting	80
MEM09006B	Perform advanced engineering detail drafting	40
RIIHAN309A	Conduct Telescopic Materials Handler Operations	80
TAEDEL301A	Provide work skill instruction	40
TLILIC0012A	License to operate a vehicle loading crane (Capacity 10	40

	metre tonnes and above)	
TLILIC2001A	Licence to operate a forklift truck	40
TLILIC2005A	License to Operate a Boom Type Elevating Work Platform (Boom Length 11 Metres or more)	30
TLILIC3006A	Licence to operate a non-slewing mobile crane (greater than 3 tonnes capacity)	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 4. 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 220 points

Group B Qualification Electives.		Weighting Points
Complete units to a maximum weighting of 310 points		
MEM05004C	Perform routine oxy acetylene welding	20
MEM05007C	Perform manual heating and thermal cutting	20
MEM05012C	Perform routine manual metal arc welding	20
MEM18010C	Perform equipment condition monitoring and recording	40
MEM18018C	Maintain pneumatic system components	40
MEM18020B	Maintain hydraulic system components	40
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
UEPMNT320B	Inspect and Repair/Replace Faults in Mechanical Equipment/Components	40

UEPMNT339B	Perform Sheet Metal Work	60
UEPMNT340B	Fabricate Metal Structures and Components	40
UEPMNT367A	Install and commission stationary gas fuelled reciprocating engines	60
UEPMNT368A	Repair and maintain stationary gas fuelled reciprocating engines	60
UEPOPS301B	Conduct Single Energy Source Isolation Procedures for Permit to Work	40

Group C Qualification Electives.		Weighting Points
At least 200 points to be achieved from this group. You may select all your elective units from this Group.		
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
UEPMNT421B	Conduct Technical Inspections of Process Plant and Equipment	60
UEPMNT422B	Conduct Performance Testing on Process Plant and Equipment	60
UEPMNT424B	Monitor Efficiency of Thermal Steam Cycle Power Plant	60
UEPOPS402B	Conduct Multiple Energy Source Isolation Procedures for procedures for a Permit to Work	40
MEM07011B	Perform complex milling operations	40

Group C Qualification Electives. At least 200 points to be achieved from this group. You may select all your elective units from this Group.		Weighting Points
MEM07012B	Perform complex grinding operations	40
MEM07021B	Perform complex lathe operations	40
MEM18019B	Maintain pneumatic systems	40
MEM18021B	Maintain hydraulic systems	40
MEM18022B	Maintain fluid power controls	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.