



**Australian Government**

# **UEP40412 Certificate IV in ESI Generation Maintenance (Fabrication)**

**Release 3**

## UEP40412 Certificate IV in ESI Generation Maintenance (Fabrication)

### Modification History

Release	Action	Core/Elective	Details	Points
2	Update	Core	Correct unit code MEM05024B Perform welding supervision	120
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	Core	Correct weighting points of UEPOPS439B – Plan and organise work	30

### Description

**Scope:** Those gaining this qualification will be able to complete power generation work function such as installation, fabrication repair and maintenance of industrial pressure vessels and associated pipe work, coded welding, coded welding, welding supervision, general fabrication. 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 520 points in accordance with the Elective Competency Standard Units table below.

<b>Core Competency Standard Units</b>		<b>Weighting Points</b>
All core competency standard units to be achieved		
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
MEM05016C	Perform advanced welding using manual metal arc welding process	40
MEM05017D	Weld using gas metal arc welding process	40
MEM05018C	Perform advanced welding using gas metal arc welding process	40
MEM05024B	Perform welding supervision	120
MEM05026C	Apply welding principles	40
MEM05050B	Perform routine gas metal arc welding	20
MEM05051A	Select welding processes	20
MEM05052A	Apply safe welding practices	40
MEM09002B	Interpret technical drawing	40
MEM12023A	Perform Engineering Measurements	50
MEM18001C	Use hand tools	20
MEM18002B	Use power tools/hand held operations	20
UEENEEE101A	Apply Occupational Health and Safety regulations,	20

	codes and practices in the workplace	
UEENEEE117A	Implement and monitor energy sector OHS policies and procedures	20
UEPMNT302B	Install and Maintain Industrial Pipework	40
UEPOPS202B	Apply quality systems to work	20
UEPOPS337B	Maintain Quality Systems within the Team	20
UEPOPS417B	Monitor and Implement Environmental Plans and Procedures	20
UEPOPS430B	Control permit to work operations	20
UEPOPS439B	Plan and Organise Work	30
<b>Total points in core</b>		<b>760</b>

### Elective Competency Standard Units

Complete Elective units to achieve a total of weighting of 530 points from the following groups:

Group	Minimum points	Maximum points
<b>A Imported and Common Elective Units</b> 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>B Qualification Electives</b> You may select units from this group for qualification completion.	0	410
<b>C Qualification Electives</b> You may select all your elective units from this Group	120	520

<b>Group A - Imported and Common Elective Units</b>	<b>Weighting</b>
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Complete units to a maximum weighting of 220 points		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
CPCCLDG3001A	Licence to perform dogging	30
CPCCLRG3001A	License to Perform Rigging Basic Level	40
CPCCLRG3002A	Licence to Perform Rigging Intermediate Level	40
CPCCLSF2001A	License to Erect, Alter and Dismantle Scaffolding Basic Level	40
RIIHAN309A	Conduct Telescopic Materials Handler Operations	80
TAEDEL301A	Provide work skill instruction	40
TLILIC2001A	Licence to operate a forklift truck	40
TLILIC0012A	License to operate a vehicle loading crane (Capacity 10 metre tonnes and above)	40
TLILIC2005A	License to Operate a Boom Type Elevating Work Platform (Boom Length 11 Metres or more)	30
	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	Up to 220 points

	<p>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>	
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<b>Group B Qualification Electives.</b>		<b>Weighting Points</b>
Complete units to a maximum weighting of 410 points		
UEPOPS338B	Facilitate Effective Workplace Communications	20
UEPMNT339B	Perform Sheet Metal Work	60
UEPMNT340B	Fabricate Metal Structures and Components	40
MEM05004C	Perform routine oxy acetylene welding	20
MEM05005B	Carry out mechanical cutting	20
MEM05011D	Assemble fabricated components	80
MEM05019D	Weld using gas tungsten arc welding process	40
MEM05036C	Repair/replace/modify fabrications	40
MEM05047B	Weld using flux core arc welding process	40
MEM05049B	Perform routine gas tungsten arc welding	20
MEM12007D	Mark off/out structural fabrications and shapes	40
MEM12024A	Perform Computations	30
UEPOPS301B	Conduct Single Energy Source Isolation Procedures for Permit to Work	40

<b>Group C Qualification Electives.</b>		<b>Weighting Points</b>
At least 120 points to be achieved from this group. You may select all your elective units from this Group.		
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



MEM05020C	Perform advanced welding using gas tungsten arc welding process	40
MEM05022C	Perform advanced welding using oxy acetylene welding process	60
MEM05025C	Perform welding/fabrication inspection	120
MEM05042B	Perform welds to code standards using flux core arc welding process	60
MEM05043B	Perform welds to code standards using gas metal arc welding process	60
MEM05044B	Perform welds to code standards using gas tungsten arc welding process	60
MEM05045B	Perform pipe welds to code standards using manual metal arc welding process	60
MEM05046B	Perform welds to code standards using manual metal arc welding process	60
MEM05048B	Perform advanced welding using flux core arc welding process	40

**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.