AUR30512 Certificate III in Marine Mechanical Technology

Release: 1

AUR30512 Certificate III in Marine Mechanical Technology

Modification History

Release	Comment
Release 1	Replaces AUR30511 Certificate III in Marine

Description

This qualification covers the skills and knowledge required to perform a range of mechanical service and repair tasks within the marine industry. It is suitable for entry into the marine mechanical service and repair sector.

Job roles and employment outcomes
The Certificate III in Marine Mechanical Technology is intended to prepare new employees or recognise and develop existing workers in the marine mechanical service and repair industry. Job roles related to this qualification include:

- Marine technician

Application
This qualification is suitable for an Australian Apprenticeship pathway.

Pathways Information

Pathways into the qualification
Credit may be granted towards this qualification by those who have completed AUR20612 Certificate II in Marine Mechanical Technology, or other relevant qualifications.

Pathways from the qualification
Further training pathways from this qualification include AUR40212 Certificate IV in Automotive Mechanical Diagnosis, AUR40812 Certificate IV in Automotive Mechanical Overhauling or other relevant qualifications.

Licensing/Regulatory Information

There are no specific licences that relate to this qualification. However, some units in this qualification may have licensing or regulatory requirements, depending on the work context. Local regulations should be checked for details.

Entry Requirements

This qualification may be accessed by direct entry.

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Employability Skills Summary

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY	
The following table contains a summary of the Employability Skills as identified by the Marine service and repair industry for this qualification. The Employability Skills facets described here are broad industry requirements that may vary depending on qualification packaging options.	
Employability Skill	**Industry/enterprise requirements for this qualification include:**
Communication	• clearly communicating workplace information and ideas with workplace colleagues (verbal and non-verbal), including use of automotive terms • completing workplace reports • using and contributing to workplace procedures • maintaining workplace records • communicating with colleagues and clients to handle verbal enquiries, such as clarifying instructions and responding to requests for information • interpreting the needs of customers • reading and interpreting workplace related documentation
Teamwork	• identifying and describe own role and role of others • working within a team • working with diverse individuals and groups • applying knowledge of own role to complete activities efficiently to support team activities and tasks
Problem solving	• recognising a workplace problem or a potential problem and take action • determining problems needing priority action • referring problems outside area of responsibility to appropriate person and suggesting possible causes • seeking information and assistance as required to solve problems • using a range of problem-solving techniques • taking action to resolve concerns • developing practical responses to common breakdowns in workplace systems and procedures
Initiative and enterprise	• adapting to new and emerging situations in the workplace • being proactive and creative in responding to workplace problems, changes and challenges
Planning and organising	• planning own work requirements and prioritising actions to achieve required outcomes and ensure tasks are completed on time • identifying risk factors and taking action to minimise risk

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

The following table contains a summary of the Employability Skills as identified by the Marine service and repair industry for this qualification. The Employability Skills facets described here are broad industry requirements that may vary depending on qualification packaging options.

Employability Skill	Industry/enterprise requirements for this qualification include:
Self-management	• selecting and using appropriate equipment, materials, processes and procedures • recognising limitations and seeking timely advice • planning own work requirements, setting own work program and managing time to ensure tasks are completed on time • following workplace documentation, such as codes of practice or operating procedures
Learning	• asking questions to gain information • identifying sources of information, assistance and expert knowledge to expand knowledge, skills and understanding • participating in self-improvement activities • participating in development of workplace continuous improvement strategies • helping others develop competency
Technology	• operating diagnostic and test equipment • performance testing of components, systems and equipment • using tools and equipment efficiently and safely • storing and caring for components, parts, tools, test equipment and support equipment • using business technology to collect, analyse and provide information

Packaging Rules

To be awarded this qualification, competency must be demonstrated in **30 units** of competency, consisting of:

- **13 core units**

plus

- **17 elective units**, of which:
    - up to **17** elective units may be chosen from the elective units listed below
    - up to **5** elective units may be chosen from a Certificate II qualification or above in this Training Package, another endorsed Training Package or accredited course, provided that the units chosen contribute to the vocational outcome of this qualification and do not duplicate the outcome of another unit chosen for the qualification.

Core units

Unit code	Unit title
Common - Health and Safety	
AURASA2002	Apply safe working practices in an automotive workplace
Marine - Environment	
AURREA3002	Monitor environmental and sustainability best practice in the marine mechanical industry
Marine - Technical - Engines	
AURRTE3005	Diagnose and repair marine electrical systems and components
AURRTE3006	Diagnose and repair outboard engines and components
AURRTE3007	Diagnose and repair inboard engines and components
AURRTE3008	Install marine engines, controls and instruments
Marine - Technical - Drivelines and Final Drives	
AURRTQ3003	Install inboard propeller drive systems
AURRTQ3004	Diagnose and repair inboard propeller drive systems
Marine - Technical - Electrical and Electronic	
AURRTR3002	Install marine electronic systems and components
AURRTR3004	Install marine electrical systems and components

Unit code	Unit title
Marine - Technical - Transmission	
AURRTX3003	Diagnose and repair marine outboard and stern drive transmissions
AURRTX3004	Diagnose and repair marine inboard transmissions
Mechanical Miscellaneous - Technical - Tools and Equipment	
AURTTK2002	Use and maintain workplace tools and equipment

Elective

Unit code	Unit title
Common - Foundation Skills	
AURAFA2001	Use numbers in an automotive workplace
AURAFA2002	Read in an automotive workplace
AURAFA2003	Communicate effectively in an automotive workplace
AURAFA2004	Solve routine problems in an automotive workplace
AURAFA2005	Write routine texts in an automotive workplace
Common - Management, Leadership and Supervision	
AURAMA2001	Work effectively with others
AURAMA2002	Communicate business information
Common - Quality	
AURAQA2001	Contribute to quality work outcomes
Electrical - Technical - Brakes	
AURETB3001	Repair electric braking systems
Electrical - Technical - Tools and Equipment	
AURETK2002	Use and maintain automotive electrical test equipment
Electrical - Technical - Electrical and Electronic	

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Unit code	Unit title
AURETR2006	Carry out soldering of electrical wiring and circuits
AURETR2009	Install, test and repair vehicle lighting and wiring systems
AURETR2011	Install and test basic ancillary electrical components
AURETR2012	Test and repair basic electrical circuits
AURETR2015	Inspect and service batteries
AURETR3021	Inspect, service and repair electronic management, monitoring and tracking systems
AURETR3023	Diagnose and repair electronic spark ignition engine management systems
AURETR3024	Diagnose and repair electronic compression ignition engine management systems
AURETR3025	Test, charge and replace batteries
AURETR3026	Remove, replace and program electrical and electronic units and assemblies
AURETR3028	Diagnose and repair instruments and warning systems
AURETR3029	Diagnose and repair charging systems
AURETR3030	Diagnose and repair starting systems
AURETR3031	Diagnose and repair ignition systems
AURETR3032	Repair electrical systems
Mechanical - Heavy Vehicle - Technical - Emission and Exhaust	
AURHTZ3001	Diagnose and repair heavy vehicle emission control systems
Mechanical - Light Vehicle - Technical - Brakes	
AURLTB3003	Diagnose and repair light vehicle hydraulic braking systems
Marine	
AURRGA3001	Launch and recover a vessel using a trailer
AURRGA3002	Launch and recover a vessel from crane, gantry and forklift
AURRGA3003	Moor a motor-driven vessel

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Unit code	Unit title
Marine - Technical	
AURRTA2001	Service deck, hull and cabin equipment
AURRTA3002	Carry out hull repairs
AURRTA3003	Winterise vessel and engine systems
AURRTA3004	Recommission vessel systems
AURRTA3005	Repair deck, hull and cabin equipment
AURRTA3006	Water test a vessel
Marine - Technical - Steering and Suspension	
AURRTD3001	Diagnose and repair marine steering systems
Marine - Technical - Engines	
AURRTE2002	Service outboard engines and components
AURRTE2003	Service inboard engines and components
AURRTE3009	Recommission marine engine systems
AURRTE3010	Water test engines in tanks
AURRTE4011	Overhaul two and four cycle outboard engines
Marine - Technical - Drivelines and Final Drives	
AURRTQ2001	Service inboard propeller drive systems
AURRTQ2002	Service jet drive propulsion systems
AURRTQ3005	Install jet drive propulsion systems
AURRTQ3006	Diagnose and repair jet drive propulsion systems
Marine - Technical - Electrical and Electronic	
AURRTR3003	Test, diagnose and repair marine electronic systems and components
Marine - Technical - Transmission	
AURRTX2001	Service marine outboard and stern drive transmissions

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Unit code	Unit title
AURRTX2002	Service marine inboard transmissions
Mechanical Miscellaneous	
AURTGA3001	Drive and manoeuvre trailers
Mechanical Miscellaneous - Technical	
AURTTA2010	Service and repair trailers up to 4.5 tonnes
AURTTA3013	Repair hydraulic systems
AURTTA3018	Carry out diagnostic procedures
AURTTA3019	Carry out advanced diagnostic procedures
AURTTA4021	Carry out diagnosis of complex system faults
Mechanical Miscellaneous - Technical - Brakes	
AURTTB2001	Inspect and service braking systems
Mechanical Miscellaneous - Technical - Fuel Systems	
AURTTF2002	Service diesel fuel injection systems
AURTTF3004	Repair diesel fuel injection systems
AURTTF3005	Inspect and repair engine forced induction systems
Mechanical Miscellaneous - Technical - Tools and Equipment	
AURTTK2001	Use and maintain measuring equipment in an automotive workplace
Vehicle Body - Technical - Welding, Grinding, Machining and Soldering	
AURVTW2001	Carry out manual metal arc welding procedures
AURVTW2003	Carry out gas metal arc welding procedures
AURVTW2008	Carry out oxy acetylene welding, thermal cutting and thermal heating procedures
Imported Units	
BSBFLM312C	Contribute to team effectiveness

Unit code	Unit title
BSBWOR202A	Organise and complete daily work activities
BSBWOR301B	Organise personal work priorities and development
MEM09002B	Interpret technical drawing
TLID1001A	Shift materials safely using manual handling methods

Custom Content Section

Not applicable.