

AUR31312 Certificate III in Automotive Engine Reconditioning

Release: 1



AUR31312 Certificate III in Automotive Engine Reconditioning

Modification History

Release	Comment
Release 1	Replaces AUR31311 Certificate III in Automotive Engine Reconditioning
	Unit codes updated to meet policy requirements

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Description

This qualification covers the skills and knowledge required to recondition engines in the automotive service and repair sector. It is suitable for entry into the automotive specialist service and repair sector.

Job roles and employment outcomes

The Certificate III in Automotive Engine Reconditioning is intended to prepare new employees or recognise and develop existing workers who recondition engines. Job roles related to this qualification include:

• automotive engine reconditioners.

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 AUR20512 Certificate II in Automotive Servicing Technology, AUR21512 Certificate II in Automotive Cylinder Head Reconditioning or other relevant qualifications.

Pathways from the qualification

Further training pathways from this qualification include AUR40112 Certificate IV in Automotive Management or other relevant qualifications.

Licensing/Regulatory Information

Some jurisdictions may require this qualification for licensing purposes. In addition 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 automotive industry for this qualification. The employability skills facets described here are broad industry requirements that may vary depending on qualification packaging options.

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Employability skill	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 describing 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 taking action to resolve it 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 developing practical responses to common breakdowns in workplace systems and procedures undertaking numerical operations, calculations and using formulae (including addition, subtraction, multiplication, division, fractions and decimals, percentages and proportions, simple ratios and averages) 	
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 	

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Employability skill	yability 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 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 	

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Packaging Rules

To be awarded this qualification, competency must be demonstrated in 28 units of competency, consisting of:

13 core units

plus

- 15 elective units, of which:
 - up to 15 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 or 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- Environment		
AURAEA3003	Monitor environmental and sustainability best practice in the automotive mechanical industry	
Common - Health and Safety		
AURASA2002	Apply safe working practices in an automotive workplace	
Motorsport - Technical		
AURMTA3007	Conduct non-destructive testing	
Miscellaneous Mechanical - Technical - Engines		
AURTTE3001	Apply knowledge of engine science	
Miscellaneous Med	Miscellaneous Mechanical - Technical - Tools and Equipment	
AURTTK2001	Use and maintain measuring equipment in an automotive workplace	
AURTTK2002	Use and maintain workplace tools and equipment	
Miscellaneous Mechanical - Technical - Manufacture		
AURTTM3002	Repair bearing tunnels and connecting rods in engines	
AURTTM3004	Assemble engine blocks and sub-assemblies	
AURTTM3007	Carry out grinding operations	

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Unit code	Unit title
AURTTM3008	Dismantle and evaluate engine blocks and sub-assemblies
AURTTM3009	Fit sleeves and bore and hone engine cylinders
AURTTM3011	Recondition engine cylinder heads
Miscellaneous Mechanical - Technical - Welding, Grinding, Machining and Soldering	
AURTTW3003	Carry out machining operations

Elective units

Unit code	Unit title	
Mechanical - Heavy Vehicle - Technical - Engines		
AURHTE3002	Repair engines and associated engine components (heavy vehicle)	
Mechanical -Light Vehicle -Technical -Engines		
AURLTE2001	Remove and install light vehicle engine assemblies	
AURLTE3002	Repair engines and associated engine components (light vehicle)	
Miscellaneous Mechanical -Technical		
AURTTA2005	Select and use bearings, seals, gaskets, sealants and adhesives	
AURTTA2009	Carry out pre-repair operations (mechanical)	
AURTTA3018	Carry out diagnostic procedures	
Miscellaneous Med	Miscellaneous Mechanical – Technical -Fuel Systems	
AURTTF3005	Inspect and repair engine forced induction systems	
Miscellaneous Med	Miscellaneous Mechanical - Technical - Manufacture	
AURTTM3001	Operate and monitor computer numerical control machines	
AURTTM3003	Apply metal to rebuild engine components	
AURTTM3005	Balance rotating and reciprocating engine components	
AURTTM3006	Perform advanced machining and blueprinting of engine components	

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Unit code	Unit title
AURTTM3010	Heat treat, straighten and reclaim engine components
Miscellaneous Mechanical - Technical - Welding, Grinding, Machining and Soldering	
AURTTW3002	Set, operate and monitor specialist machines
Vehicle Body -Technical - Welding, Grinding, Machining and Soldering	
AURVTW2001	Carry out manual metal arc welding procedures
AURVTW2003	Carry out gas metal arc welding procedures
AURVTW2004	Carry out gas tungsten arc welding procedures
AURVTW2008	Carry out oxy acetylene welding, thermal cutting and thermal heating procedures

Custom Content Section

Not applicable.

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