



Australian Government

Department of Education, Employment and Workplace Relations

AUR31311 Certificate III in Automotive Engine Reconditioning

Release: 1

AUR31311 Certificate III in Automotive Engine Reconditioning

Modification History

Not applicable.

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/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

This qualification may be accessed by direct entry. Credit may be granted towards this qualification by those who have completed AUR20505 Certificate II in Automotive Vehicle Servicing, AUR20705 Certificate II in Automotive Mechanical or other relevant qualifications.

Pathways from the qualification

Further training pathways from this qualification include AUR40208 Certificate IV in Automotive Technology or other relevant qualifications.

Licensing/Regulatory Information

Licensing considerations

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

Not Applicable

Employability Skills Summary

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

The following table contains a summary of the Employability Skills as identified by the engine reconditioning 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 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

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

	- time - identifying risk factors and taking action to minimise risk
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

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:
 - all 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, another endorsed Training Package or accredited course, provided that the units chosen contribute to the vocational outcome of this qualification.

Note:

- Where prerequisite units are identified they must be counted in the total number of units of competency required for completion of the qualification.
- Units of competency that duplicate the outcome of another unit selected for the qualification must **not** be used.

Core units

Unit code	Unit title
AURC270103A	Apply safe working practices
AURM340550B	Conduct non-destructive testing
AURT225667A	Use and maintain measuring equipment
AURT270278A	Use and maintain workplace tools and equipment
AURT271781A	Implement and monitor environmental regulations in the automotive mechanical industry
AURT335108A	Carry out machining operations
AURTTTE3001	Apply knowledge of engine science
AURTTM3002	Repair bearing tunnels and connecting rods in engines
AURTTM3009	Fit sleeves and bore and hone engine cylinders
AURTTM3008	Dismantle and evaluate engine blocks and sub-assemblies
AURTTM3004	Assemble engine blocks and sub-assemblies
AURTTM3011	Recondition engine cylinder heads

AURTTM3007	Carry out grinding operations
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Elective units

Unit code	Unit title
AURT200368A	Select and use bearings, seals, gaskets, sealants and adhesives
AURT201164A	Remove and install engine assemblies
AURT226008A	Carry out pre-repair operations (mechanical)
AURT334972A	Set, operate and monitor specialist machines
AURT305671A	Inspect and repair engine forced induction systems
AURT366108A	Carry out diagnostic procedures
AURTH301166A	Repair engines and associated engine components (heavy vehicle)
AURTL301166A	Repair engines and associated engine components (light vehicle)
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
AURTTM3010	Heat treat, straighten and reclaim engine components
AURV223608A	Carry out oxy acetylene welding, thermal cutting and thermal heating procedures
AURV281108A	Carry out manual metal arc welding procedures
AURV281308A	Carry out gas metal arc (MIG) welding procedures
AURV281408A	Carry out gas tungsten arc (TIG) welding procedures