

# **AUR40812 Certificate IV in Automotive Mechanical Overhauling**

Release: 1



## **AUR40812 Certificate IV in Automotive Mechanical Overhauling**

## **Modification History**

Release	Comment
Release 1	Replaces AUR40208 Certificate IV in Automotive Technology

# **Description**

This qualification covers the skills and knowledge required to perform advanced troubleshooting and repair operations in an automotive retail, service and repair environment.

## Job roles and employment outcomes

The Certificate IV in Automotive Mechanical Overhauling is intended to provide advanced training for automotive technicians who want to further develop their repair and technical skills.

Employment outcomes targeted by this qualification include:

• automotive lead/master technician

#### **Application**

This qualification is suitable for an Australian Apprenticeship pathway.

# **Pathways Information**

#### Pathways from the qualification

Further training pathways from this qualification include AUR50112 Diploma of Automotive Management and AUR50212 Diploma in Automotive Technology 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. Local regulations should be checked for details.

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# **Entry Requirements**

Those undertaking Certificate IV in Automotive Mechanical Overhauling are required to have completed an automotive mechanical Certificate III qualification or be able to demonstrate equivalent competency.

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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.

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

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## 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.

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

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# **Packaging Rules**

To be awarded this qualification, competency must be demonstrated in **10 units** of competency, consisting of:

#### 1 core unit

plus

- **9 elective units**; of which:
  - up to 9 elective units may be chosen from the elective units listed below
  - up to 2 elective units may be chosen from a Certificate IV 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
Mechanical Miscellaneous - Technical	
AURTTA4021	Carry out diagnosis of complex system faults

## **Elective units**

Unit Code	Unit Title	
Electrical - Technical - Electrical and Electronic		
AURETR3017	Overhaul charging system alternators	
AURETR3018	Overhaul starting motors	
Electrical - Technical - Air Conditioning and HVAC		
AURETU4007	Overhaul air conditioning system components	
Mechanical - Heavy Vehicle - Technical - Brakes		
AURHTB4003	Overhaul braking system components (heavy)	
AURHTB4004	Overhaul air braking systems and components	
Mechanical - Heavy Vehicle - Steering and Suspension		
AURHTD3004	Carry out wheel alignment operations (heavy vehicle)	

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Mechanical - Light Vehicle - Technical - Brakes		
AURLTB4001	Overhaul braking system components (light)	
Mechanical - Light Vehicle - Technical - Steering and Suspension		
AURLTD3006	Carry out wheel alignment operations (light vehicle)	
Motorsport - Technical		
AURMTA3007	Conduct non-destructive testing	
Motorsport - Tech	nical - Engines	
AURMTE4001	Test engines using a dynamometer	
Outdoor Power Equipment - Technical - Engines		
AURPTE4004	Overhaul engines and engine components (outdoor power equipment)	
Marine - Technical - Engines		
AURRTE4011	Overhaul two and four cycle outboard engines	
Mechanical Miscellaneous – Technical – Steering and Suspension		
AURTTD4005	Overhaul steering system components	
Mechanical Misce	llaneous - Technical - Engines	
AURTTE4005	Overhaul engines and associated engine components	
Mechanical Miscellaneous - Technical - Fuel Systems		
AURTTF4003	Overhaul diesel fuel injection systems	
AURTTF4007	Overhaul petrol fuel system components	
Mechanical Misce	Mechanical Miscellaneous - Technical - Manufacture	
AURTTM3001	Operate and monitor computer numerical control machines	
AURTTM3002	Repair bearing tunnels and connecting rods in engines	
AURTTM3003	Apply metal to rebuild engine components	
AURTTM3004	Assemble engine blocks and sub-assemblies	
AURTTM3005	Balance rotating and reciprocating engine components	

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	<u> </u>
AURTTM3006	Perform advanced machining and blueprinting of engine components
AURTTM3007	Carry out grinding operations
AURTTM3008	Dismantle and evaluate engine blocks and sub-assemblies
AURTTM3009	Fit sleeves and bore and hone engine cylinders
AURTTM3010	Heat treat, straighten and reclaim engine components
AURTTM3011	Recondition engine cylinder heads
Mechanical Miscellaneous - Technical - Driveline and Final Drives	
AURTTQ4004	Overhaul final drive assemblies
Mechanical Miscellaneous - Technical - Welding, Grinding, Machining and Soldering	
AURTTW3003	Carry out machining operations
Mechanical Miscellaneous - Technical - Transmission	
AURTTX4007	Overhaul clutch assemblies
AURTTX4008	Overhaul transmissions (manual)
AURTTX4009	Overhaul transmissions (automatic)
AURTTX4010	Overhaul transmissions (hydrostatic)

# **Custom Content Section**

Not applicable.

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