



Australian Government

AUR40412 Certificate IV in Automotive Performance Enhancement

Release: 1

AUR40412 Certificate IV in Automotive Performance Enhancement

Modification History

Release	Comment
Release 1	Replaces AUR40405 Certificate IV in Automotive Performance Enhancement

Description

This qualification covers the skills and knowledge required to analyse and repair complex performance driveline systems.

Job roles or employment outcomes

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

Job outcomes targeted by this qualification include:

- master technician
- performance vehicle technician

Application

This qualification is suitable for an Australian apprenticeship pathway.

Pathways Information

Pathways from the qualification

Further training pathways from this qualification include AUR50212 Diploma of 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.

Entry Requirements

Those undertaking Certificate IV in Automotive Performance Enhancement are required to have completed an automotive AUR30612 Certificate III in Light Vehicle Mechanical Technology or be able to demonstrate equivalent competency.

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 style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> adapting to new and emerging situations in the workplace being proactive and creative in responding to workplace problems, changes and challenges
Planning and organising	<ul style="list-style-type: none"> 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	Industry/enterprise requirements for this qualification include:
Self-management	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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 **10 units of competency, consisting of:**

- **3 core units** listed below

plus

- **7 elective units**, of which:
 - up to **7** elective units may be chosen from the elective units listed below
 - up to **2** elective units may be chosen from a Certificate III 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	Pre requisites
Motorsport - Technical - Engines		
AURMTE4001	Test engines using a dynamometer	
Motorsport - Technical - Fuel Systems		
AURMTF4002	Analyse and repair performance fuel injection systems	AURETR3023 AURTTF2001
Mechanical Miscellaneous - Technical		
AURTTA4021	Carry out diagnosis of complex system faults	

Elective units

Unit code	Unit title	Pre requisites
Administration - Foundation Skills		
AURAF5006	Prepare technical reports	
AURAF5007	Develop and document specifications and procedures	
Administration - Management, Leadership and Supervision		
AURAMA5006	Contribute to business improvement	
Electrical - Technical - Electrical and Electronic		

AURETR3023	Diagnose and repair electronic spark ignition engine management systems	
AURETR5033	Develop and apply electronic systems modification	
AURETR5034	Develop and apply electrical systems modification	
Mechanical - Light Vehicle - Technical - Brakes		
AURLTB4001	Overhaul braking system components (light)	
Mechanical - Light Vehicle - Technical – Steering and Suspension		
AURLTD3005	Repair suspension systems (light vehicle)	
Mechanical - Light Vehicle - Technical – Driveline and Final Drives		
AURLTQ3001	Repair final drive assemblies (light vehicle)	
AURLTQ3002	Repair final drive – driveline (light vehicle)	
Motorsport - Technical		
AURMTA3007	Conduct non-destructive testing	
AURMTA5003	Determine material suitability for competition vehicle components	AURMTA3007 MEM30012A
AURMTA5008	Apply aerodynamic and vehicle dynamic principles and effects to competition vehicles	AURMTD4002 AURMTJ4001 MEM30012A
Mechanical - Light Vehicle - Technical – Transmission		
AURLTX3001	Repair transmissions - manual (light vehicle)	
Motorsport - Technical - Steering and Suspension		
AURMTD4001	Test suspension dampers using a dynamometer	MEM30012A
AURMTD4002	Prepare competition vehicle suspension	AURLTD3005 AURTID2004
Motorsport - Technical - Fuel Systems		
AURMTF4001	Analyse and repair complex performance carburetted fuel systems	AURTTF2001 AURTTF3006
Motorsport - Technical - Wheels and Tyres		

AURMTJ4001	Select and prepare tyres and wheels for motorsport applications	
Motorsport - Technical - Driveline and Final Drives		
AURMTQ4001	Analyse and repair complex performance driveline systems	AURLTQ3001 AURLTQ3002 AURLTX3001 AURMTA3007
Mechanical Miscellaneous - Environment		
AURTEA4001	Manage environmental compliance in the mechanical repair industry	
Mechanical Miscellaneous - Loss Assessment or Repair Quoting		
AURTNA5001	Estimate and calculate costs to repair, maintain or modify a vehicle	
Mechanical Miscellaneous - Technical		
AURTTA5022	Develop and apply mechanical system modifications	
AURTTA5023	Develop and apply hydraulic system modifications	
Mechanical Miscellaneous - Technical - Steering and Suspension		
AURTTD2004	Inspect and service suspension systems	
AURTTD4005	Overhaul steering system components	
Mechanical Miscellaneous - Technical - Engines		
AURTTE4005	Overhaul engines and associated engine components	
Mechanical Miscellaneous - Technical - Fuel Systems		
AURTTF2001	Service petrol fuel systems	
AURTTF3006	Diagnose and repair petrol carburettor systems	
AURTTF4007	Overhaul petrol fuel system components	
Mechanical Miscellaneous - Technical - Alternative Fuels		
AURTTL5015	Develop and apply gas fuel system modifications	
Mechanical Miscellaneous - Technical - Driveline and Final Drives		

AURTTQ4004	Overhaul final drive assemblies	
Mechanical Miscellaneous - Technical - Transmission		
AURTTX4007	Overhaul clutch assemblies	
AURTTX4008	Overhaul transmissions (manual)	
AURTTX4009	Overhaul transmissions (automatic)	
Imported Units		
BSBWHS401A	Implement and monitor WHS policies, procedures and programs to meet legislative requirements	
MEM30012A	Apply mathematical techniques in a manufacturing engineering or related environment	

Custom Content Section

Not applicable.