



Australian Government

AUR30612 Certificate III in Light Vehicle Mechanical Technology

Release: 1

AUR30612 Certificate III in Light Vehicle Mechanical Technology

Modification History

Release	Comment
Release 1	Replaces AUR30405 Certificate III in Automotive Mechanical Technology

Description

This qualification covers the skills and knowledge required to perform a broad range of tasks on a variety of light vehicles in the automotive service and repair industry.

Job roles and employment outcomes

The Certificate III in Light Vehicle Mechanical Technology prepares new employees or recognises and develops existing workers performing mechanical work in the automotive light vehicle service and repair industry.

Job roles related to this qualification include:

- light vehicle mechanical 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 AUR20512 Certificate II in Automotive Servicing Technology, AUR20712 Certificate II in Automotive Vocational Preparation 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.

Employability Skills Summary

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY	
<p>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.</p>	
Employability Skill	Industry/enterprise requirements for this qualification include:
Communication	<ul style="list-style-type: none"> • clearly communicating workplace verbal and non-verbal information and ideas with workplace colleagues, 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 describing own role and role of others • 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 potential problem and taking 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
Self-management	<ul style="list-style-type: none"> • selecting and using appropriate equipment, materials, processes and procedures

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

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Employability Skill	Industry/enterprise requirements for this qualification include:
	<ul style="list-style-type: none"> • 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 and 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 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 **36 units** of competency, consisting of:

- **20 core units**

plus

- **16 elective units**, of which:

- up to **16** elective units may be chosen from the elective units listed below
- up to **6** 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
Electrical – Technical – Electrical and Electronic	
AURETR2012	Test and repair basic electrical circuits
AURETR3023	Diagnose and repair electronic spark ignition engine management systems
AURETR3025	Test, charge and replace batteries
AURETR3029	Diagnose and repair charging systems
AURETR3030	Diagnose and repair starting systems
AURETR3031	Diagnose and repair ignition systems
Mechanical – Light Vehicle – Technical – Emission and Exhaust	
AURLTZ3001	Diagnose and repair light vehicle emission control systems
Mechanical – Light Vehicle – Technical – Brakes	
AURLTB3003	Diagnose and repair light vehicle hydraulic braking systems

Unit code	Unit title
Mechanical – Light Vehicle – Technical – Steering and Suspension	
AURLTD3004	Repair steering systems (light vehicle)
AURLTD3005	Repair suspension systems (light vehicle)
Mechanical – Light Vehicle – Technical – Engines	
AURLTE3002	Repair engines and associated engine components (light vehicle)
Mechanical Miscellaneous – Technical	
AURTTA2004	Carry out servicing operations
AURTTA3018	Carry out diagnostic procedures
Mechanical Miscellaneous – Technical – Brakes	
AURTTB2001	Inspect and service braking systems
Mechanical Miscellaneous – Technical – Cooling Systems	
AURTTC3003	Diagnose and repair cooling systems
Mechanical Miscellaneous – Technical – Engines	
AURTTE2004	Inspect and service engines
Mechanical Miscellaneous – Technical – Fuel Systems	
AURTTF2001	Service petrol fuel systems
Mechanical Miscellaneous – Technical – Tools and Equipment	
AURTTK2002	Use and maintain workplace tools and equipment

Elective units

Unit code	Unit title	Prerequisites
Common – Sales and Marketing		
AURACA2001	Establish relations with customers	
Common – Foundation Skills		

Unit code	Unit title	Prerequisites
AURAF2003	Communicate effectively in an automotive workplace	
Electrical – Technical – Steering and Suspension		
AURETD3001	Service and repair electronically controlled steering systems	
Electrical – Technical – Hybrid Vehicle and Battery Electric Vehicle		
AURETH3001	Depower battery electric vehicles	
AURETH3002	Service and maintain battery electric vehicles	AURETH3001
Electrical – Technical – Body		
AURETR3043	Service and repair electronic body management systems	
Electrical – Technical – Electrical and Electronic		
AURETR2005	Install, test and repair electrical security systems and components	
AURETR2010	Fabricate, test and repair wiring harnesses and looms	
AURETR2011	Install and test basic ancillary electrical components	
AURETR3020	Repair electronic systems	
AURETR3022	Diagnose and repair vehicle dynamic control systems	
AURETR3024	Diagnose and repair electronic compression ignition engine management systems	
AURETR3028	Diagnose and repair instruments and warning systems	
AURETR3032	Repair electrical systems	
AURETR3036	Service and repair electronically controlled suspension systems	
AURETR3044	Service and repair electronic drive management systems	
Electrical – Technical – Air Conditioning and HVAC		
AURETU2003	Service air conditioning and HVAC systems	
AURETU3004	Diagnose and repair air conditioning and HVAC systems	

Unit code	Unit title	Prerequisites
AURETU3005	Retrofit and modify air conditioning and HVAC systems	
Mechanical – Light Vehicle – Technical – Steering and Suspension		
AURLTD3006	Carry out wheel alignment operations (light vehicle)	
Mechanical – Light Vehicle – Technical – Engines		
AURLTE2001	Remove and install light vehicle engine assemblies	
Mechanical – Light Vehicle – Technical – Fuel Systems		
AURLTF3001	Diagnose and repair mechanical fuel injection systems	
Mechanical – Light Vehicle – Technical – Wheels and Tyres		
AURLTJ2001	Select tyres and rims for specific applications (light)	
AURLTJ2002	Remove, inspect, repair and fit tyres and tubes (light)	
AURLTJ2003	Remove, inspect, and refit light vehicle wheel assemblies	
Mechanical – Light Vehicle – Technical – Driveline and Final Drives		
AURLTQ3001	Repair final drive assemblies (light vehicle)	
AURLTQ3002	Repair final drive – driveline (light vehicle)	
Mechanical – Light Vehicle – Technical – Transmission		
AURLTX3001	Repair transmissions – manual (light vehicle)	
AURLTX3002	Repair transmissions – automatic (light vehicle)	
AURLTX3003	Diagnose and repair light vehicle clutch systems	
Mechanical Miscellaneous – Technical		
AURTTA2005	Select and use bearings, seals, gaskets, sealants and adhesives	
AURTTA2009	Carry out pre-repair operations (mechanical)	
AURTTA3017	Carry out vehicle safety and roadworthy inspections	
AURTTA3019	Carry out advanced diagnostic procedures	

Unit code	Unit title	Prerequisites
Mechanical Miscellaneous – Technical – Brakes		
AURTTB2003	Machine brake drums and brake disc rotors	
AURTTB3005	Assemble and fit braking systems and components	
AURTTB3006	Inspect, service and repair auxiliary braking systems	
Mechanical Miscellaneous – Technical – Cooling Systems		
AURTTC2001	Inspect and service cooling systems	
Mechanical Miscellaneous – Technical – Steering and Suspension		
AURTTD2002	Inspect and service steering systems	
AURTTD2004	Inspect and service suspension 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	
AURTTF3006	Diagnose and repair petrol carburettor systems	
Mechanical Miscellaneous – Technical – Wheels and Tyres		
AURTTJ2001	Balance wheels and tyres	
Mechanical Miscellaneous – Technical – Measuring Equipment		
AURTTK2001	Use and maintain measuring equipment in an automotive workplace	
Mechanical Miscellaneous – Technical – Alternative Fuels		
AURTTL3007	Service LPG fuel systems	
AURTTL3008	Diagnose and repair LPG fuel systems	
Mechanical Miscellaneous – Technical – Driveline and Final Drives		
AURTTQ2001	Service final drive assemblies	

Unit code	Unit title	Prerequisites
AURTTQ2003	Service final drive (driveline)	
Mechanical Miscellaneous – Technical – Welding, Grinding, Machining and Soldering		
AURTTW2001	Carry out soft soldering techniques	
Mechanical Miscellaneous – Technical – Transmission		
AURTTX2002	Inspect and service transmissions (manual)	
AURTTX2003	Inspect and service transmissions (automatic)	
Mechanical Miscellaneous – Technical – Emission and Exhaust		
AURTTZ2002	Repair exhaust system components	
Vehicle Body – Technical		
AURVTA3004	Inspect vehicle systems and determine preferred repair action	
Vehicle Body – Technical – Welding, Grinding, Machining and Soldering		
AURVTW2001	Carry out manual metal arc welding procedures	
AURVTW2002	Carry out brazing 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.