AUR30612 Certificate III in Light Vehicle Mechanical Technology

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# Modification History

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| 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 | |
| --- | --- |
| 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 | * 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 | * 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 | * 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 | * 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 |
| 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 and 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 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 |
| 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 | | |
| AURAFA2003 | 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 |  |
| 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 |  |
| 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 |  |
| 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.