AUR50205 Diploma of Automotive Technology

Release: 2

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Modification History

Not Applicable

Description

This qualification covers the skills and knowledge required to diagnose, analyse, evaluate, design and modify automotive electrical and mechanical systems. It is suitable for those working within the automotive industry at the forefront of the implementation of new technologies.

Job roles/employment outcomes

The Diploma of Automotive Technology is intended to prepare new employees or recognise and develop existing workers who are performing advanced diagnosis and design tasks in the automotive industry.

Employment outcomes targeted by this qualification include:

- advanced diagnostic technician
- automotive system designer.

Application

This qualification is suitable for an Australian Apprenticeship pathway.

Pathways Information

Pathways into the qualification

Entrants to this qualification are required to have completed AUR40208 Certificate IV in Automotive Technology or be able to demonstrate equivalent competence.

Pathways from the qualification

Further training pathways from this qualification may lead to a relevant Advanced Diploma.

Additional qualification advice

Because technology is increasing at an exponential rate and to ensure qualification relevance and integrity, industry recommends that this qualification be completed within a specified time of approximately five (5) years.

Licensing/Regulatory Information

Licensing considerations

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

Not Applicable

Employability Skills Summary

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY	
The following table contains a summary of the Employability Skills for this qualification as identified by the Automotive industry. 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	• Communicating with business contacts to promote the goals and objectives of the business • Obtaining feedback from colleagues and clients • Interpreting and completing business documentation • Advising stakeholders of outcomes • Communicating information about tasks, processes and events • Communicating business and legal requirements, including occupational health and safety (OHS) responsibilities
Teamwork	• Leading, planning and supervising the performance of team members • Developing team cohesion and fostering innovative work practices • Supporting, respecting and understanding the views of others • Identifying own role and responsibility within a team • Undertaking appropriate and effective communication with team members • Building and maintaining networks and relationships • Being supportive, assertive and using interpersonal skills
Problem solving	• Accessing and assessing information for accuracy and relevance • Evaluating and modifying as required • Checking and making required adjustments • Using knowledge to solve problems • Using a wide range of strategies and techniques to solve problems
Initiative and enterprise	• Identifying networking opportunities and developing operational strategies to ensure the viability of the business • Instigating new or different work practices to improve productivity or service delivery • Supporting a continuous improvement environment • Identifying issues requiring action and recommending action • Making adjustments to improve workplace processes and procedures
Planning and organising	• Allocating work to meet time and budget constraints • Developing plans and schedules

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

	• Planning for and organising resources
Self-management	• Managing own time and priorities and dealing with contingencies • Taking responsibility as required by work role and ensuring all organisational policies and procedures are followed • Using discretion and judgement within complex environments • Using judgement in planning and selecting resources for oneself and others
Learning	• Participating in professional networks and associations to obtain and maintain personal knowledge and skills • Recognising limits of own professional expertise and consulting specialists as necessary • Accessing manufacturer's manuals/specifications to expand knowledge • Identifying own training needs and seeking skill development if required • Gathering feedback on own work to assess effectiveness in meeting objectives and integrate information into own practice
Technology	• Using business technology to access, organise and monitor information • Working with technology safely and according to workplace standards • Helping others use technology efficiently and safely • Using testing technology

Packaging Rules

Packaging Rules

To be awarded the Diploma of Automotive Technology, competency must be achieved in **twelve** (**12**) units of competency.

* **one** (**1**) core unit of competency
* **eleven** (**11**) elective units of competency, as specified below:

    * a minimum of **seven** (**7**) elective units of competency from Group A
    * a maximum of **four** (**4**) elective units of competency from Group B, drawn from any combination of:
        * units not already chosen from Group A and Group B
        * a maximum of **two** (**2**) units available in this Training Package, other endorsed Training Packages and accredited courses, where those units are aligned to Certificate IV qualifications or higher.

Note

No more than two (2) units of competency may be drawn from Assessment and Training units of competency in the AUR05 Automotive Industry Retail, Service and Repair Training Package.

Core units of competency

* Complete the following **one** (**1**) unit of competency.

AURT577620A	Develop and document specifications and procedures

Elective units of competency

Group A - **Elective units**

* Complete a minimum of **seven** (**7**) units of competency from the following lists, including:
    * a minimum of **one** (**1**) unit from the Mechanical groups
    * a minimum of **one** (**1**) unit from the Electrical/Electronic groups.

General mechanical technology	
AURT477093A	Analyse and evaluate gas fuel system faults
AURT577120A	Develop and apply gas fuel systems modification
AURT577394A	Evaluate and select bodywork materials, equipment and processes

General mechanical technology	
AURT577520A	Prepare technical reports
AURT577727B	Estimate and calculate costs to repair, maintain or modify a vehicle

Mechanical - Heavy vehicle	
AURT571093A	Analyse and evaluate heavy vehicle steering and suspension system faults
AURT571193A	Analyse and evaluate heavy vehicle transmission system faults
AURT571293A	Analyse and evaluate heavy vehicle engine and fuel system faults
AURT571393A	Analyse and evaluate heavy vehicle braking system faults

Mechanical - Marine	
AURT573593A	Analyse and evaluate light marine hydraulic system faults
AURT573693A	Analyse and evaluate light marine transmission system faults
AURT573793A	Analyse and evaluate light marine engine and powerhead system faults
AURT573893A	Analyse and evaluate light marine hull performance and stability system faults

Mechanical - Light vehicle	
AURT570093A	Analyse and evaluate light vehicle steering and suspension system faults
AURT570193A	Analyse and evaluate light vehicle driveline system faults
AURT570293A	Analyse and evaluate light vehicle engine and fuel system faults
AURT570393A	Analyse and evaluate light vehicle braking system faults

Mechanical - Systems modification	

Mechanical - Systems modification	
AURT574020A	Develop and apply mechanical systems modification
AURT574120A	Develop and apply hydraulic systems modification
AURT574220A	Develop and apply pneumatic systems modification

Mechanical - Mobile plant	
AURT572093A	Analyse and evaluate wheeled mobile plant steering and suspension system faults
AURT572193A	Analyse and evaluate wheeled mobile plant transmission system faults
AURT572293A	Analyse and evaluate mobile plant engine and fuel system faults
AURT572393A	Analyse and evaluate tracked mobile plant transmission, steering and braking systems faults
AURT572493A	Analyse and evaluate tracked mobile plant undercarriage and suspension system faults
AURT572593A	Analyse and evaluate wheeled mobile plant braking system faults
AURT572693A	Analyse and evaluate mobile plant hydraulic system faults

Mechanical - Motorcycle	
AURT573093A	Analyse and evaluate motorcycle steering, suspension and frame system faults
AURT573193A	Analyse and evaluate motorcycle engine and transmission system faults
AURT573293A	Analyse and evaluate motorcycle electrical/electronic system faults
AURT573393A	Analyse and evaluate motorcycle braking system faults

Electrical and electronic systems	
AURT575093A	Analyse and evaluate electrical and electronic faults in stability/

Electrical and electronic systems	
	steering/suspension systems
AURT575193A	Analyse and evaluate electrical and electronic faults in electric over hydraulic systems
AURT575293A	Analyse and evaluate electrical and electronic faults in engine management systems
AURT575393A	Analyse and evaluate electrical and electronic faults in transmission/ driveline systems
AURT575493A	Analyse and evaluate electrical and electronic faults in braking systems
AURT575593A	Analyse and evaluate electrical and electronic faults in safety systems
AURT575693A	Analyse and evaluate electrical and electronic faults in monitoring/ protection systems
AURT575893A	Analyse and evaluate electrical and electronic faults in convenience and entertainment systems
AURT575993A	Analyse and evaluate electrical and electronic faults in theft deterrent systems
AURT576093A	Analyse and evaluate electrical and electronic faults in electric and hybrid vehicle systems
AURT576193A	Analyse and evaluate electrical and electronic faults in climate control systems
AURT576520A	Develop and apply electrical systems modification
AURT576620A	Develop and apply electronic systems modification

Management and administration	
MSAENV472B	Implement and monitor environmentally sustainable work practices
MSAENV672B	Develop workplace policy and procedures for sustainability

Group B - Balance of elective units

- The balance of units, to a maximum of **four** (**4**), may be drawn from any combination of:
  - units not already chosen from Group A
  - a maximum of **two** (**2**) units available in this Training Package, other endorsed Training Packages and accredited courses, where those units are aligned to Certificate IV qualifications or higher.