



Australian Government

AUR20412 Certificate II in Automotive Electrical Technology

Release: 1

AUR20412 Certificate II in Automotive Electrical Technology

Modification History

Release	Comment
Release 1	Replaces AUR20408 Certificate II in Automotive Electrical Technology

Description

This qualification covers the skills and knowledge required to perform a range of tasks related to installation, assembly and servicing of electrical components/systems of motor vehicles within the automotive electrical installation, service and repair technology sector.

Job roles and employment outcomes

The Certificate II in Automotive Electrical Technology is intended to prepare prospective employees and existing workers who undertake service and repair of vehicle electrical components and systems in the automotive electrical industry. Work may include performing component/system fabricating, fitting or modifying operations of automotive aftermarket electrical componentry and installation.

Employment outcomes targeted by this qualification include:

- automotive electrical component installer
- automotive electrical trainee / assistant

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 relevant units of competency from AUR10112 Certificate I in Automotive Vocational Preparation in this Training Package or other relevant qualifications.

Pathways from the qualification

Further training pathways from this qualification include AUR30312 Certificate III in Automotive Electrical 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, 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, service and repair sector 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
Communication	<ul style="list-style-type: none"> • understanding and carrying out verbal instructions from supervisors and others • reading, understanding and completing workplace documentation, forms and records • sharing work-related information with other team members using industry terminology • communicating with people from a range of social, cultural and ethnic backgrounds
Teamwork	<ul style="list-style-type: none"> • contributing positively to the work team environment • working effectively with others in a socially diverse environment • respecting and understanding the views of others • giving, receiving and acting upon feedback • identifying and describing own role and role of others
Problem solving	<ul style="list-style-type: none"> • recognising a problem or a potential problem within a vehicle component or system or with equipment • seeking information and assistance to solve problems outside own area of responsibility • solving problems within own area of responsibility
Initiative and enterprise	<ul style="list-style-type: none"> • suggesting ideas for workplace improvement to supervisors and team members • positively adapting to changes in workplace procedures and making adjustments to improve own performance • taking positive action to report hazards or risk situations to supervisors
Planning and organising	<ul style="list-style-type: none"> • planning daily work tasks to work safely and manage risks according to workplace procedures • prioritising activities to achieve required outcomes • planning and organising appropriate equipment and materials • planning ahead to anticipate problems with availability of equipment, materials and personnel to assist
Self-management	<ul style="list-style-type: none"> • following workplace safety requirements and other policies and procedures • completing known delegated tasks on time

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY	
	<ul style="list-style-type: none">• selecting and using appropriate equipment, materials, processes and procedures• asking for advice and assistance when appropriate
Learning	<ul style="list-style-type: none">• identifying personal strengths and weaknesses• acting upon feedback and accept opportunities to learn to improve work performance• asking questions to gain information and identify sources of information to expand knowledge and understanding
Technology	<ul style="list-style-type: none">• appropriately setting up technological equipment• recognising and reporting faulty equipment• using appropriate tools and equipment• applying knowledge of operating principles of vehicle components and systems

Packaging Rules

To be awarded this qualification, competency must be demonstrated in **16 units** of competency, consisting of:

- **10 core units**

plus

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

- up to **6** elective units may be chosen from the elective units listed below
- up to **3** elective units may be chosen from a Certificate II 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
Common - Environment	
AURAEA2002	Apply environmental and sustainability best practice in an automotive workplace
Common – Health and Safety	
AURASA2002	Apply safe working practices in an automotive workplace
Electrical – Technical – Tools and Equipment	
AURETK2002	Use and maintain automotive electrical test equipment
Electrical – Technical – Electrical and Electronic	
AURETR2006	Carry out soldering of electrical wiring and circuits
AURETR2007	Demonstrate knowledge of automotive electrical circuits and wiring systems
AURETR2008	Remove and replace electrical units and assemblies
AURETR2009	Install, test and repair vehicle lighting and wiring systems
AURETR2011	Install and test basic ancillary electrical components
AURETR2012	Test and repair basic electrical circuits
AURETR2015	Inspect and service batteries

Elective units

Unit code	Unit title
Common – Sales and Marketing	
AURACA2001	Establish relations with customers
Common - Foundation Skills	
AURAF2001	Use numbers in an automotive workplace
AURAF2002	Read in an automotive workplace
AURAF2003	Communicate effectively in an automotive workplace
AURAF2005	Write routine texts in an automotive workplace
Common – Management, Leadership and Supervision	
AURAMA2001	Work effectively with others
AURAMA2002	Communicate business information
Common - Technical	
AURATA2001	Identify basic automotive faults using troubleshooting processes
AURATA2002	Read and interpret engineering drawings
AURATA2003	Produce drawings from design concepts
Electrical – Technical – Tools and Equipment	
AURETK1001	Identify, select and use low voltage electrical test equipment
Electrical – Technical - Body	
AURETR2042	Remove, refit and test electrical componentry for operation following body repair activities
Electrical – Technical – Electrical and Electronic	
AURETR1003	Apply automotive electrical system fundamentals
AURETR2005	Install, test and repair electrical security systems and components
AURETR2010	Fabricate, test and repair wiring harnesses and looms
AURETR2013	Inspect and service charging systems

Unit code	Unit title
AURETR2014	Inspect and service starting systems
AURETR2016	Read and apply vehicle wiring schematics and drawings
AURETR3025	Test, charge and replace batteries
Electrical – Technical - Air Conditioning and HVAC	
AURETU2001	Install air conditioning systems
AURETU2002	Recover vehicle refrigerants
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
Outdoor Power Equipment – Technical - Electrical and Electronic	
AURPTR2002	Test and service outdoor electric powered equipment
Marine – Technical - Electrical and Electronic	
AURRTR1001	Inspect, service and maintain marine battery storage systems
Sales and Parts, Administration and Management – Sales and Marketing	
AURSCA2001	Select automotive parts and products
AURSCA2003	Apply sales procedures
Mechanical Miscellaneous – Technical	
AURTTA2004	Carry out servicing operations
AURTTA2008	Produce patterns and templates
AURTTA2009	Carry out pre-repair operations (mechanical)
AURTTA3018	Carry out diagnostic procedures
Mechanical Miscellaneous – Technical - Engines	
AURTTE2004	Inspect and service engines
Mechanical Miscellaneous – Technical – Tools and Equipment	

Unit code	Unit title
AURTTK2001	Use and maintain measuring equipment in an automotive workplace
AURTTK2002	Use and maintain workplace tools and equipment
Vehicle Body – Technical – Trimming and Upholstery	
AURVTT2003	Remove and replace vehicle interior trim components
AURVTT2004	Trim vehicle components
AURVTT2005	Select and apply trim and fabric materials
AURVTT2006	Select and apply trim and fabric adhesives
Vehicle Body – Technical - Welding, Grinding, Machining and Soldering	
AURVTW2003	Carry out gas metal arc welding procedures
AURVTW2008	Carry out oxy acetylene welding, thermal cutting and thermal heating procedures

Custom Content Section

Not applicable.