

Job description

Automotive Electricians diagnose, repair, service and test all elements of the electrical and electronic systems of a vehicle. This includes the repair and overhaul of vehicle ignition, charging, starting, lighting, ABS, body management systems and components. To do this, automotive electricians rely on a wide range of tools, including hand and power tools, precision measuring tools and equipment, together with diagnostic and electrical measuring equipment.

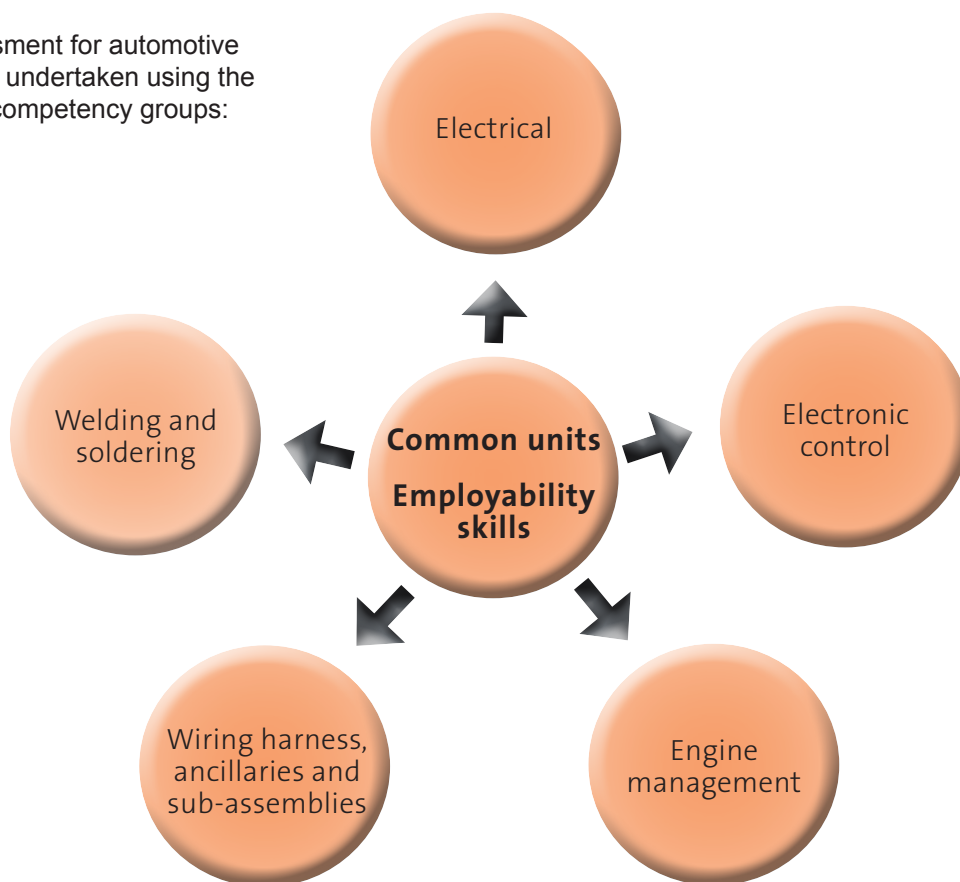
Automotive Electricians are usually employed by vehicle dealerships, mechanical service and repair workshops or specialist automotive electrical workshops. These work environments can range from small workshops which undertake a variety of repair jobs to larger shops that specialise in a particular make of vehicle or equipment.

Competency assessment

The VETASSESS assessment uses competency groups. These groups consist of units of competency for the Certificate III in Automotive Electrical Technology qualification (AUR30308). They represent groups of tasks, skills and knowledge that are used to assess an applicant's competence in an occupation and are from the Automotive Retail, Service & Repair Training Package (AUR05).

The minimum requirement for achievement of the Australian qualification is to demonstrate competence (employment and training evidence) in all of the units of competency. Please read the [Portfolio Builder](#) document for more information about how to complete a competency assessment for an Australian qualification.

The assessment for automotive electrician is undertaken using the following competency groups:



Common units

Units of competency covering common skills and knowledge will be assessed with each of the competency groups. These common units relate to the workplace occupational health and safety requirements, work processes and procedures, motor vehicle repair industry standards and requirements to work as a automotive electrician in Australia.

Employability skills

The assessment includes the following employability skills: teamwork; communication; problem solving; planning and organising; learning; technology; self-management; initiative and enterprise. Competency units contain employability skills that will be assessed with each competency group.

Competency groups

The following is a breakdown of the competency groups shown in the diagram on page 1.

Common units

The following units of competency are common in all groups for assessment purposes.

- AURC270103A Apply safe working practices
- AURT271781A Implement and monitor environmental regulations in the automotive mechanical industry
- AURT270278A Use and maintain workplace tools and equipment
- AURT366108A Carry out diagnostic procedures

Note: The tasks, skills, knowledge and employability skills required for the common units are assessed with the following competency groups.

Electrical

Be able to service, diagnose and repair automotive electrical systems.

- AURE218708A Carry out repairs to a single electrical circuit
- AURE218676A Test, service and charge batteries
- AURE318866A Repair electrical systems
- AURE318966A Repair instruments and warning systems
- AURE319166A Repair charging systems
- AURE319245A Overhaul starting motors

Electronic control

Be able to service, diagnose and repair automotive electrical control systems.

- AURE321271A Service and repair electronic drive management system
- AURE321371A Service and repair electronic body management system
- AURE320871A Service and repair electronically controlled steering systems
- AURE320971A Service and repair electronically controlled suspension systems
- AURE321471A Service and repair electronically controlled anti-lock braking systems
- AURE321571A Service and repair electronically operated traction control systems
- AURE321671A Service and repair electronically operated stability control systems

Engine management

Be able to service, diagnose and repair engine management systems.

- AURE320666A Repair ignition systems
- AURE321171A Service and repair electronic spark ignition engine management systems

Wiring harness, ancillaries and sub-assemblies

Be able to manufacture and repair wiring harness and looms and install ancillaries and sub-assemblies.

AURE218664A	Remove and install electrical/electronic units/sub-assemblies
AURE219331A	Install, test and repair low voltage wiring/lighting systems
AURE219431A	Install, test and repair electrical security systems/components
AURE219531A	Install ancillary electrical components
AURE220140A	Manufacture and repair wiring harness/looms
AURT222670A	Service air conditioning systems

Welding and soldering services

Be able to carry out soldering of electrical wiring and circuits.

AURV223608A	Carry out oxy acetylene welding, thermal cutting and thermal heating procedures
AURE224008A	Carry out soldering of electrical wiring and circuits
AURV281308A	Carry out gas metal arc (MIG) welding procedures

Assessment outcome

If you **successfully** complete the assessment process you will receive the following:

- an **Australian Certificate III** qualification that lists the units of competency you successfully achieved.

If you are **unsuccessful** in the assessment process you will be issued:

- a **Statement of Attainment** that lists units of competency you have successfully achieved and those that were not achieved.

Licensing and industry information

A licence, registration or certification may be required for this occupation.

For further information regarding any licensing requirements refer to:

- Department of Immigration and Citizenship (DIAC) - Australian Skills Recognition Information (ASRI): www.immi.gov.au/asri
- Mutual recognition for occupational licences in Australia: www.licencerecognition.gov.au

Additional industry information that may assist you can be found at:

- The myfuture website is Australia's national career information and exploration service, helping people to make career decisions, plan career pathways and manage work transitions: <http://www.myfuture.edu.au>

Qualification information

If you would like detailed information about the units of competency that make up this qualification please refer to the National Training Information Service (NTIS) website:

<http://www.ntis.gov.au>