

Fact sheet

# Automotive Electrician

(ANZSCO: 321111)



## Job description

Automotive Electricians install, maintain and repair electrical wiring and components in motor vehicles.

Their job involves:

- » using test equipment to locate electrical and electronic malfunctions
- » dismantling and removing electrical and electronic assemblies and components
- » installing electrical equipment and electronic components in motor vehicles
- » connecting power-operated vehicle equipment and accessories to power supply
- » adjusting engine control systems and timing
- » testing and replacing defective alternators, generators, voltage regulators and starter motors
- » repairing and replacing faulty ignition and electrical wiring
- » replacing defective parts such as fuses, lamps and switches.

The qualification relevant to this job is [AUR30316 Certificate III in Automotive Electrical Technology](#).

**NOTE:** This trade assessment is for generic automotive electricians dealing with automotive electrical systems. It does not extend to heavy vehicle road transport and light vehicle mechanics or speciality areas such as automotive airconditioning mechanic, brake mechanic, diesel motor mechanic, motorcycle mechanic or outboard motor mechanic.

## How will I be assessed?

Assessment is conducted in two stages:

### Stage 1:

We will review your training and employment evidence to ensure you have:

- » 5 years' employment experience as an Automotive Electrician (with no formal training) **OR**
- » 3 years' employment experience as an Automotive Electrician (with relevant formal training\*).

\*'Formal training' is training that aligns with the national training standards in your country of training.

Your evidence must show you have worked in your occupation for at least 12 months within the last 3 years.

[For more information on the documents required for Stage 1, see the Evidence Guide on our website.](#)

### Stage 2:

If you are successful in Stage 1, an assessor will assess you via a technical interview. The technical interview will be conducted in English and no interpreters are allowed.

[For more information on Stage 2, see the Technical Interview Guide on our website.](#)

## What skills and knowledge do I need?

To be awarded the qualification AUR30316 Certificate III in Automotive Electrical Technology, you must demonstrate your skill and knowledge in a number of **units of competency**. Each unit of competency defines a selection of knowledge and skill required in Australian workplaces.

**You must achieve 32 units of competency:**

**20** core units

and

**12** elective units

These units have been organised into 8 groups as follows:

### GENERAL AUTOMOTIVE WORKPLACE SKILLS

- » AURAEA002 Follow environmental and sustainability best practice in an automotive workplace [Core]
- » AURAF002 Read and respond to automotive workplace information [Elective]
- » AURASA002 Follow safe working practices in an automotive workplace [Core]
- » AURTTK002 Use and maintain tools and equipment in an automotive workplace [Elective]
- » AURAF003 Communicate effectively in an automotive workplace [Elective]
- » AURETK002 Use and maintain electrical test equipment in an automotive workplace [Core]

### GENERAL ELECTRICAL REPAIRS

- » AURETR007 Apply knowledge of automotive electrical circuits and wiring systems [Core]
- » AURETR012 Test and repair basic electrical circuits [Core]
- » AURETR010 Repair wiring harnesses and looms [Core]
- » AURETR006 Solder electrical wiring and circuits [Core]
- » AURTTW001 Carry out soft soldering techniques [Electives]
- » AURETR025 Test, charge and replace batteries and jump-start vehicles [Core]
- » AURTTA018 Carry out diagnostic procedures [Core]

### COMPONENT REMOVAL AND INSTALLATION

- » AURETR011 Install basic ancillary electrical systems and components [Elective]
- » AURETR027 Install ancillary electronic systems and components [Core]
- » AURETR008 Remove and replace electrical units and assemblies [Elective]

### CHARGING AND STARTING SYSTEMS

- » AURETR013 Inspect, test and service charging systems [Elective]
- » AURETR029 Diagnose and repair charging systems [Core]
- » AURETR017 Overhaul charging system alternators [Elective]
- » AURETR014 Inspect, test and service starting systems [Elective]
- » AURETR030 Diagnose and repair starting systems [Core]
- » AURETR018 Overhaul starting system motors [Elective]





## LIGHTING AND INSTRUMENTATION

- » AURETR009 Install vehicle lighting and wiring systems [Core]
- » AURETR032 Diagnose and repair automotive electrical systems [Core]
- » AURETR028 Diagnose and repair instruments and warning systems [Core]

## ENGINE MANAGEMENT

- » AURETR035 Apply knowledge of petrol and diesel engine operation [Core]
- » AURETR031 Diagnose and repair ignition systems [Core]
- » AURETR023 Diagnose and repair spark ignition engine management systems [Core]
- » AURETR024 Diagnose and repair compression ignition engine management systems [Core]

## BODY MANAGEMENT

- » AURETR043 Diagnose and repair electronic body management systems [Core]
- » AURETR044 Diagnose and repair integrated engine and transmission management systems [Elective]
- » AURETR022 Diagnose and repair vehicle dynamic control systems [Elective]

## OPTIONAL UNITS

- » AURTTE004 Inspect and service engines [Elective]
- » AURTTF001 Inspect and service petrol fuel systems [Elective]
- » AURETR005 Install automotive security systems and components [Elective]



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## How do I find out more about each unit of competency?

You are **strongly encouraged** to review each of the units of competency shown above. To do this:

1. Go to the following website: <http://training.gov.au/Search/Training>
2. Enter a unit code (e.g. AURAEA002) into the 'Title or code' search box
3. Tick the 'Units of competency' check box
4. Select the 'Search' button
5. Select the unit from the search results
6. Read the Unit of Competency information

## What will I receive after the assessment?

If you **successfully** complete Stage 2 you will receive the following:

- » an Australian Certificate III qualification and a Statement of Results
- » a migration outcome letter if the assessment is to support your visa application.

If you are **unsuccessful** in Stage 2 you will receive:

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

## Where can I find more information?

Please refer to our website: <http://www.vetassess.com.au/skills-assessment-for-migration/trade-occupations>

If you have further questions, contact us at:

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