Australians are passionate about their cars. There are millions of cars and motorcycles registered in Australia, and they all need to be serviced and repaired. The automotive industry is also on the road to a greener future and technological innovation will be a key feature as cars evolve to meet the needs of a low carbon economy. The demand for highly skilled technicians in all areas of the industry will grow as the government subsidises the long anticipated green-car revolution.

**JOB EXAMPLE:**
**AUTOMOTIVE ELECTRICIAN**
Automotive electrical systems repair is a specialist field of automotive service. Automotive electrical systems repair technicians perform inspections, maintenance and repair on automotive electrical parts. They are highly trained workers who use computerised diagnostic tools, equipment and reference manuals to perform the complex task of finding the source of a vehicle's electrical problem and solving it. Automotive Electricians understand the complicated working parts of a vehicle's electrical system, including the ignition, engine, chassis and accessories of today's motor vehicles, caravans, trailers, earthmoving equipment, mining equipment, marine applications and agricultural equipment.

**Tasks**
- 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.

**Job Prospects**
- Employment for this occupation rose very strongly in the past five years. For Automotive Electricians working full-time earnings are above average.
- The most common level of educational attainment is Certificate III/IV.
- Automotive Electricians are mainly employed in Automotive Services, Mining and Wholesale Trade.

Many university courses offer students with TAFE qualifications credit towards their studies.