

Automotive Technology A/V

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The Automotive Technology course offers students opportunities to develop the skills and knowledge necessary to safely maintain and repair single cylinder, two & four stroke motors, multi cylinder engines, drive-trains and a variety of electrical equipment related to motor vehicles.

In addition it enables students to gain nationally recognised automotive technology vocational qualifications (AUR10120 Cert I in Automotive Vocational Preparation and AUR20720 Cert II in Automotive Vocational Preparation, and advanced standing into Automotive Technology Trade courses offered by the CIT and TAFE institutions in other states.



Units Available

- Fundamentals
- Electrical Systems
- Vehicle Systems
- Engine Systems
- Automotive Structured Workplace Learning 1 and 2

What is in the course?

The Automotive Retail and Repair industry has positions each year for apprentices and trainees in a variety of industry occupations. Training in Automotive Technology contributes, in part, to many job roles such as:

- Automotive Mechanics
- Auto-Electricians
- Diesel Mechanics
- Auto body Repairers and Refinishers
- Automotive Parts Suppliers
- Accessories and Vehicle Sales persons
- Tyre Fitters
- Specialised Transmission Fitters
- Automotive Glaziers

Commencement in this Automotive Training Course may lead students to gaining an Australian School Based Apprenticeship in the Automotive Technology Industry. Students have the advantage of an early start to their training while gaining their Senior Secondary Certificate.

Unit Descriptions

All units described below are semester-length (value 1.0) except for the Vocational Placements. (value 0.5)

Fundamentals

This unit introduces students to the operating principles of 2 and 4 stroke engines, particularly in relation to the repair and maintenance of outdoor power equipment such as lawn mowers. Students study general systems, components and configurations of stationary engines plant and vehicles. They explore automotive industry employment sectors such as automotive mechanical, automotive electrical, automotive panel beating, automotive spare parts and automotive car sales. Students also learn safety and emergency practices and procedures in the automotive workplace.

Electrical Systems

Students learn the operating principles and components of electrical systems in cars. Electrical and electronic components are tested, dismantled and analysed. Circuit diagrams are used and electrical circuits are constructed. Students identify the dangers of electrical systems and work to WHS standards in the Workshop.

Vehicle Systems

Students study individual systems and how they combine to form a complete functional vehicle or plant. Some of these systems may include: wheel and tyre assemblies and suspension and braking systems. They learn to communicate effectively and resolve problems in the automotive workplace. Transmissions, driveline, brakes, suspension and steering systems are investigated thoroughly in both the theory room and the workshop. Removal, balancing and refitting of tyres and wheel assemblies is also studied.

Engine Systems

Students work on and gain more detailed knowledge of engine mechanics and reconditioning, fuel induction, lubrication, exhaust, cooling and ignition systems. The use of Engine Analysers, adjustments and tuning are also practised.

Structured Workplace Learning (0.5)

Vocational placements of five days in length during which students undergo on-the-job training with local industry employers are highly recommended for giving students industry experience.



