



## APPRENTICESHIP

### Course Overview

Learners develop the principles underpinning the operation of vehicle electrical systems and subsystems. They learn to use electrical measuring equipment; develop skills in interpreting wiring diagrams; test electrical circuits to confirm correct operation including engine systems, charging and starting systems, lighting and ancillary systems; vehicle management systems including engine and driveline, vehicle and body dynamics; diagnose and repair electrical circuits and harnesses; and using their on-course A/C qualification to apply for an A/C licence. Learners develop safe working practices and environmental awareness when developing solutions to planning and managing automotive vehicle electrical systems.

### Learning Outcomes

To be awarded the AUR30320 Certificate III in Automotive Electrical Technology, learners must successfully complete 32 units of competency. This is made up of 21 core (C) units and 11 elective units (E).

*Please note: these are the proposed units and clustering for AUR30320 - course outline and elective units may change.*

Block	Unit Code	Title	Core/ Elective
<b>Year 1</b>			
Block 1	AURAEA002	Follow environmental and sustainability best practice in an automotive workplace	C
	AURASA102	Follow safe working practices in an automotive workplace	C
	AURTTK102	Use and maintain tools and equipment in an automotive workplace	E
Block 2	AURETR007	Demonstrate knowledge of automotive electrical circuits and wiring systems	C
	AURETK002	Use and maintain automotive electrical test equipment	C
	AURETR125	Test, charge and replace batteries and jump-start vehicles	C
Block 3	AURTTE104	Inspect and service engines	C
	AURETR135	Apply knowledge of petrol and diesel engine operation	C
Block 4	AURETR006	Carry out soldering of electrical wiring and circuits	C
	AURETR112	Test and repair basic electrical circuits	C
	AURETR132	Diagnose and repair automotive electrical systems	C
Block 5	AURETR009	Install, test and repair vehicle lighting and wiring systems	C
	AURETR027	Install ancillary electronic control unit systems and components	C
	AURETR011	Install and test basic ancillary electrical components	E
<b>Year 2</b>			
Block 1	AURTTA118	Carry out diagnostic procedures	C
	AURETR131	Diagnose and repair ignition systems	C
Block 2	AURETU103	Service air conditioning and HVAC systems	E
	AURETU104	Diagnose and repair air conditioning and HVAC components	E
Block 3	AURETR128	Diagnose and repair instruments and warning systems	C
	AURETR010	Fabricate, test and repair wiring harnesses and looms	C

Year 2			
Block 4	AURETR129	Diagnose and repair charging systems	C
	AURETR130	Diagnose and repair starting systems	C
Year 3			
Block 1	AURETR123	Diagnose and repair spark ignition engine management systems	C
	AURETR124	Diagnose and repair compression ignition engine management systems	C
Block 2	AURETR143	Diagnose and repair electronic body management systems	C
	AURETR122	Diagnose and repair vehicle dynamic control systems	E
Block 3	AURETH101	Depower and reinitialise battery electric vehicles	E
	AURETH012	Service and maintain electrical components in hybrid electric vehicles	E
	AURETH011	Deactivate and reinitialise power supply in hybrid electric vehicles	E
Block 4	AURETR120	Diagnose and repair network electronic control systems	E
	AURETR144	Diagnose and repair integrated engine and transmission management systems	E
	AURVTA002	Remove and replace supplementary restraint systems	E

### Duration

The term for completion of this qualification is 4 years. The program offers apprentices a structured training schedule with four to five blocks of training each year for three years. Each block consists of 3 days of off-the-job-training. This is supported by on-the-job visits or additional training and assessment to determine their competency. On completion of the 13 blocks, it is expected that there will be 6-12 months to finalise all assessments for the qualification. This process contributes to the overall 4-year duration.

### Mode of Delivery

This can be completed through a combination of institutional training and workplace-based training and assessments, to provide practical, hands-on experience within the actual work environment.

### Benefits for Apprentices and Employers

- The program is structured over 3 years and apprentices will only be off-the-job for 3 days at a time, per block.
- Disruption to employers' schedules is minimised and employers have more access to their apprentices, compared to other training providers offering the same qualification.
- Each year, a specific set of units is undertaken, ensuring clear progress tracking for apprenticeships.
- Employers have a defined number of days for classroom training allocated to the learners at the beginning of each year, reducing impact on workplace operations.
- Each apprentice is allocated a minimum number of contact hours in the workplace with their Trainer Assessor. This will assist the apprentice to transfer their learning into practical application in the workplace.
- The program accommodates remedial training (if needed) to ensure successful progression.
- This program will address the future requirements for the industry and produce skilled and effective trade people.

### Course Fees

Full Fees*	<b>LOWER FEES LOCAL SKILLS</b>	\$2,544.52
Concession Rate*		\$1409.08

All learners are treated equitably, having regard to their particular needs, in order to ensure the provision of every reasonable opportunity for the learner to acquire the competencies of the qualification.

The total course fees are indicative only and are subject to change given individual circumstances at enrolment. Additional fees may apply. \*In 2024 the annual fee cap for non-concession learners undertaking a Lower Fees, Local Skills (LFLS) course is \$1,200.00. For concession learners and youth, the annual fee cap is \$400 (plus resources fees). The LFLS incentive pricing applies to WA Residents only.

### Special Requirements

This course is part of an apprenticeship, so you need to be employed in a training contract with a suitable organisation to enrol.

### Please contact our Registered Training Organisation for more information

website: [www.mtawa.com.au](http://www.mtawa.com.au) | phone: (08) 9233 9800 | email: [studentinfo@mtawa.com.au](mailto:studentinfo@mtawa.com.au)

