Automotive Institute of Technology
RTO 0627

AUR32721 CERTIFICATE III IN AUTOMOTIVE ELECTRIC VEHICLE TECHNOLOGY

Course Overview
Embrace the future of the automotive industry with the AUR32721 Certificate III in Automotive Electric Vehicle Technology. This comprehensive course is designed for individuals who aspire to become experts in the growing field of Electric Vehicles (EVs) and the latest automotive technology.

In this course, learners will develop the principles underpinning the operation of battery electric light vehicle systems and subsystems. They will acquire the skills to perform services, diagnose and repair braking, steering, suspension, vehicle electrical, charging systems and vehicle management systems. Specialist units in this qualification include diagnosis and repair of traction and auxiliary motors and controllers, high voltage vehicle batteries and safety interlocks. Upon successful completion of the air conditioning diagnosis and repair units, the learner can apply for their air conditioning license. Upon successfully completing the depower/repower units, the learner can apply to AASRA for access to Battery Electric Vehicle information.

As part of this course, learners will also develop safe working practices and environmental awareness when developing solutions towards planning and managing automotive vehicle systems.

To be awarded the AUR 32721 Certificate III in Automotive Electric Vehicle Technology, learners must successfully complete the following 29 units of competency:

- **16 core (C) units, plus**
- **8 special elective (SE) units, plus**
- **5 elective (E) units**

Blocks	Code	Description	Unit type	Hours
YEAR 1				
Block 1	AURASA102	Follow safe working practices in an automotive workplace	C	20
	AURAEA002	Follow environmental and sustainability best practice in an automotive workplace	C	20
	AURTTK102	Use and maintain tools and equipment in an automotive workplace	C	30
Block 2	AURETK002	Use and maintain electrical test equipment in an automotive workplace	C	18
	AURETR125	Test, charge and replace batteries and jump-start vehicles	C	20
Block 3	AURETH101	Depower and reinitialise battery electric vehicles	C	10
	AURETH102	Inspect and maintain battery electric vehicles*	C	20
	AURETH011	Depower and reinitialise hybrid electric vehicles	E	20
Block 4	AURTTB101	Inspect and service braking systems	SE	20
	AURLTB103	Diagnose and repair light vehicle hydraulic braking systems	SE	30
	AURTTA118	Develop and carry out diagnostic test strategies	C	30
YEAR 2				
Block 5	AURETR112	Test and repair basic electrical circuits	C	30
	AURETR132	Diagnose and repair automotive electrical systems	SE	50
Block 6	AURLTD104	Diagnose and repair light vehicle steering systems	SE	30
	AURVTA002	Remove and replace vehicle supplementary restraint systems	E	30
Block 7	AURLTD105	Diagnose and repair light vehicle suspension systems	SE	30
	AURLTJ102	Remove, inspect, repair and refit light vehicle tyres and tubes	SE	12
	AURTTJ011	Balance wheels and tyres	SE	10

Block 8	AURETH103	Diagnose and repair high voltage rechargeable energy storage systems in battery electric vehicles*	SE	30
	AURETH106	Diagnose and repair auxiliary motors and associated components in battery electric vehicles*	C	40
YEAR 3				
Block 9	AURETU103	Service air conditioning and HVAC systems	C	20
	AURETU104	Diagnose and repair air conditioning and HVAC components	E	30
	AURETH108	Diagnose and repair HVAC and rechargeable energy storage cooling systems in battery electric vehicles*	C	40
Block 10	AURETH104	Diagnose and repair traction motor speed control systems in battery electric vehicles	C	30
	AURETH105	Diagnose and repair high voltage traction motors in battery electric vehicles	C	50
Block 11	AURETH107	Diagnose and repair system instrumentation and safety interlocks in battery electric vehicles*	C	40
	AURETH109	Diagnose and repair DC to DC converters in battery electric vehicles**	C	40
Block 12	AURETR122	Diagnose and repair vehicle dynamic control systems	E	60
	AURETR143	Diagnose and repair electronic body management systems	E	45
		Total Hours		***855***

**As a pre-requisite, unit AURETH101 is required*
*** As a pre-requisite, units AURETH101 and AURETR125 are required*

Fee Strucuture

Concession	**$1,757.50**
Non-concession	**$3,706.90**

Total course fees are indicative only and are subject to change given individual circumstances at enrolment. Additional fees may apply.

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.

Duration

The program provides apprentices with a structured program covering 4 blocks per year, over 3 years. This is supported by on-the-job visits, which includes further training as required in the workplace and assessment to determine the apprentice's competency.

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. This minimises disruptions to employer schedules and employers.
- 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 the 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.

Entry 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 | phone: (08) 9233 9800 | email: studentinfo@mtawa.com.au

MTA WA Motor Trade Association of WA — Automotive Institute of Technology RTO 0627

JOBS & SKILLS WA

Nationally Recognised Training

Training Accreditation Council Western Australia