

Automotive Institute of Technology RTO #0627

AUR30320 Certificate III in Automotive Electrical Technology

Students 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. Students develop safe working practices and environmental awareness when developing solutions to planning and managing automotive vehicle electrical systems.

To be awarded the above mentioned Certificate III students must successfully complete thirty two (32) units of competency. This can be made up of twenty one (21) core units and eleven (11) elective units, six (6) units can be brought in from another qualification within the six (6) elective units should they be deemed as more appropriate.

Block	Code	Unit Title	Hours	Core/ Elective	Duration
Year 1	1			1	
Block 1	AURAEA002	Follow environmental & sustainability best practice in an automotive workplace	20	С	3 days off-the- job at MTA WA
	AURASA102	Follow safe working practices in an automotive workplace	20	С	
	AURTTK102	Use & maintain tools and equipment in an automotive workplace	30	E	
Block 2	AURETR007	Apply knowledge of automotive electrical circuits & wiring systems	18	С	3 days off-the- job at MTA WA
	AURETK002	Use & maintain electrical test equip in an automotive workplace	18	С	
	AURETR125	Test, charge & replace batteries & jump-start vehicles	20	С	
Block 3	AURTTE104	Inspect & service engines	20	С	3 days off-the- job at MTA WA
	AURETR135	Apply knowledge of petrol & diesel engine operation	30	С	
Block 4	AURETR006	Solder electrical wiring & circuits	20	С	3 days off-the- job at MTA WA
	AURETR112	Test & repair basic electrical circuits	30	С	
	AURETR132	Diagnose & repair automotive electrical systems	50	С	
Block 5	AURETR009	Install vehicle lighting & wiring systems	20	С	3 days off-the- job at MTA WA
	AURETR027	Install ancillary electrical systems & components	35	С	
	AURETR011	Install basic ancillary electrical systems & components	20	E	
Year 2					
Block 1	AURTTA118	Develop and carry out diagnostic test strategies	30	С	3 days off-the- job at MTA WA
	AURETR131	Diagnose and repair ignition systems	30	С	
Block 2	AURETU103	Service air conditioning and HVAC systems	20	E	3 days off-the- job at MTA WA
	AURETU104	Diagnose and repair air conditioning and HVAC systems	30	E	
Block 3	AURETR128	Diagnose and repair instruments and warning systems	30	С	3 days off-the- job at MTA WA
	AURETR010	Repair wiring harnesses and looms	55	С	
Block 4	AURETR129	Diagnose and repair charging systems	25	С	3 days off-the- job at MTA WA
	AURETR130	Diagnose and repair starting systems	30	С	
Year 3					
Block 1	AURETR123	Diagnose & repair spark ignition engine management systems	55	С	3 days off-the- job at MTA WA
	AURETR124	Diagnose & repair compression ignition engine management systems	55	С	

Please note: this is the proposed units and clustering for AUR30320 - course outline and elective units may change.

Course Information

Block 2	AURETR143	Diagnose & repair electronic body management systems	45	С	3 days off-the-
	AURETR122	Diagnose & repair vehicle dynamic control systems	60	E	job at MIA WA
Block 3	AURETH101	Depower & reinitialise battery electric vehicles	10	E	3 days off-the-
	AURETH012	Service & maintain hybrid electric vehicles	30	E	job at MIA WA
	AURETH011	Depower & reinitialise hybrid electric vehicles	20	E	
Block 4	AURETR120	Diagnose & repair network electronic control systems	45	E	3 days off-the-
	AURETR144	Diagnose & repair integrated engine & transmission management systems	45	E	job at MTA WA
	AURVTA002	Remove & replace vehicle supplementary restraint systems	30	E	
		TOTAL HOURS	996		

Delivery period

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

Mode of delivery

This can be completed through institution training with workplace visits including assessments. The benefits to apprentices and employers include:

- The program is structured over three years, providing the employer with more access to their apprentices when they are most needed.
- During each year, a set number of units will be commenced and completed, thereby ensuring clarity on the progress of the apprenticeship.
- A defined number of days for classroom training will be allocated to students at the beginning of each year. This will impact less on the employer and minimise disruptions to workplace planning.
- Each apprentice is allocated a minimum number of personal contact hours in the workplace with their

trainer/assessor. This will assist the apprentice to transfer their learning into practical application in the workplace.

Built into the program is capacity to provide remedial training should it be required by the apprentice to ensure they progress successfully through their program.

This program will address the future requirements for the industry and produce competent and effective trade people.

Course fees

Concession	\$1,409.08
No Concession	\$2,544.52

The 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.

Contact us today to fast track your automotive career!

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