

<b>Programme Name</b>	<b>Certificate IV in Automotive Engineering(Automotive Electrical &amp; Electronics)</b>
<b>Programme Description</b>	<p><b>This course is aimed at students who:</b></p> <ol style="list-style-type: none"> <li>1. Are seeking a career in the Automotive Engineering Trades Industry</li> <li>2. Wish to enhance and develop a range of practical skills for life</li> <li>3. Wish to undertake a course in which they can gain recognition of prior learning or credit transfer when entering appropriately related post school education and/or training; and/or require a foundation of skills and knowledge that can be built on as the need arises</li> </ol> <p><b>This course should enable students to:</b></p> <p>Understand the concepts, techniques, terminology and content appropriate to the industry focus of the course</p> <ol style="list-style-type: none"> <li>1. Demonstrate employment related practical skills and the workplace best practices</li> <li>2. Demonstrate problem solving ability incorporating evaluation techniques and skills</li> <li>3. Relate basic numeracy and scientific principles to practical applications</li> <li>4. Demonstrate oral, written and graphical communication skills</li> <li>5. Work independently and collaboratively in accordance with occupational health, safety principles, industry standards, and ethics.</li> <li>6. Demonstrate an awareness of existing and emerging technologies and career pathways</li> </ol> <p><b>Limitations of scope of practice of the graduate(if any): Nil</b></p>
<b>Majors</b>	Automotive Electrical/Electronic
<b>Minimum Requirements</b>	<p>(a) Passed year 12/Form 6 plus English.</p> <p>(b) Indentured applicants with less than the above requirements but at least two years industrial experience can be considered or matured students.</p> <p>(c) A pass in Level III in Automotive Engineering with 6 months Industrial Attachment.</p>
<b>Duration</b>	2 years
<b>Programme Type</b>	Certificate IV
<b>College Name</b>	College of Engineering Sciences & Technology
<b>Campus</b>	Derrick
<b>Credit Points</b>	120

### Programme Structure

Course Code	Course Title	Credit Points
AUT361	Mechanical Systems Theory	5
AUT 362	Mechanical Systems W/S	5
AUT 363	Electrical Principles	5
AUT 364	Automotive Science & Calculation	5
AUT 365	Automotive Engineering Studies	5
COM 303	Introduction to Communication Literacy	5
<b>QUARTER 1</b>		<b>30</b>
<b>STAGE 2</b>		
AUT 366	Automotive Electrical & Electronics System	5
AUT 367	ICE Technology	5
AUT 368	ICE Technology Workshop	5
AUT 369	ICE Fuel Systems	5
AUT 370	ICE Project	5
ETH301	Fundamentals of Ethical Practices	5
<b>QUARTER 2</b>		<b>30</b>
<b>STAGE 3 – AEE</b>		
AEE420	Automotive Electrics	5
AEE421	Automotive Electrics Workshop	5
AEE422	Engine Management System	5
AEE423	Engine Management System Workshop	5
AUT440	Mechanical Science	5
AUT443	Computer Aided Drawing	5
<b>QUARTER 3</b>		<b>30</b>
<b>STAGE 4 – AEE</b>		
AEE428	AEE Science	5
AEE424	Safety, Security & Convenience	5
AEE425	Safety, Security & Convenience Workshop	5
AEE426	Alternative Drive & Control Systems	5
AEE427	AEE Project	5
AUT442	Automotive Commercial Procedure	5
<b>QUARTER 4</b>		<b>30</b>
<b>Total Credit Points</b>		<b>120</b>

Course Prerequisite		
Course Code	Course Title	Prerequisite
AUT361	Mechanical Systems Theory	Year 12/Cert III Auto. Eng.
AUT 362	Mechanical Systems W/S	Year 12/Cert III Auto. Eng.

AUT 363	Electrical Principles	Year 12/Cert III Auto. Eng.
AUT 364	Automotive Science & Calculation	Year 12/Cert III Auto. Eng.
AUT 365	Automotive Engineering Studies	Year 12/Cert III Auto. Eng.
COM 303	Introduction to Communication Literacy	Year 12/Cert III Auto. Eng.
<b>QUARTER 1</b>		
<b>STAGE 2</b>		
AUT 366	Automotive Electrical & Electronics System	AUT 363
AUT 367	ICE Technology	AUT 361
AUT 368	ICE Technology Workshop	AUT 362
AUT 369	ICE Fuel Systems	AUT 361
AUT 370	ICE Project	AUT 362
ETH301	Fundamentals of Ethical Practices	Complete Year 12/Cert. III in Auto. Eng.
<b>QUARTER 2</b>		
<b>STAGE 3 – AEE</b>		
AEE420	Automotive Electrics	AUT 361
AEE421	Automotive Electrics Workshop	AUT364
AEE422	Engine Management System	AUT 365
AEE423	Engine Management System Workshop	AUT 365
AUT440	Mechanical Science	AUT 362
AUT443	Computer Aided Drawing	Year12
<b>QUARTER 3</b>		
<b>STAGE 4 – AEE</b>		
AEE428	AEE Science	AUT440
AEE424	Safety, Security & Convenience	AEE420
AEE425	Safety, Security & Convenience Workshop	AEE421
AEE426	Alternative Drive & Control Systems	AEE422
AEE427	AEE Project	AEE423
AUT442	Automotive Commercial Procedure	COM303
<b>QUARTER 4</b>		

**Notes:**

For the completion of the programme the candidates must;

1. One year mandatory industrial attachment at an automotive workshop.
2. Obtain a satisfactory report from the workshop supervisor.
3. Attain 120 credit points from all the courses listed in the structure above.