

Programme Name	Certificate IV in Automotive Engineering(Heavy Commercial Vehicle)
Programme Description	<p>Aim:</p> <p>This course is aimed at students who: Are seeking a career in the Automotive Engineering Trades Industry Wish to enhance and develop a range of practical skills for life 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</p> <p>Programme Objectives</p> <p>1.To acquire extensive knowledge, practical, reasoning and solving skills applied to problems in the real world of work related to the Certificate IV in Automobile Engineering [Heavy Commercial Vehicles]</p> <p>2. The range of skills and knowledge in the automotive trade industries has increased and will continue to increase. New technologies are constantly replacing recent ones so there is a great need for people involved at any level in the production or use of them to be adaptable. Students and workers need to be able to acquire knowledge quickly and to develop and apply new skills effectively. These skills are transferable so can be used across a wide range of trades and industries. It is also important to maintain traditional skills and attitudes used with older technologies where they underpin and support the newer technologies.</p> <p>3. To be practically competent in solving engineering problems in relation to Heavy Commercial Vehicles.</p>
Majors	Heavy Commercial Vehicle
Minimum Requirements	<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>
Duration	2 years
Programme Type	Certificate IV
College Name	College of Engineering Sciences & Technology
Campus	Derrick
Credit Points	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
QUARTER 1		30
STAGE 2		
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
QUARTER 2		30
STAGE 3 - HCV		
HCV420	Heavy Diesel Engine	5
HCV421	Heavy Diesel Engine Workshop	5
HCV422	Heavy Control System	5
HCV423	Heavy Control System Workshop	5
AUT 440	Vehicle Mechanical Science I	5
AUT 443	Computer Aided Drawing	5
QUARTER 3		30
STAGE 4 - HCV		
HCV424	Powertrain	5
HCV425	Powertrain Workshop	5
HCV426	HCV Road Worthiness	5
HCV427	HCV Project	5
AUT 441	Mechanical Science II	5
AUT442	Automotive Commercial	5
QUARTER 4		30
Total Credit Points		120

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.
QUARTER 1		
STAGE 2		
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.
QUARTER 2		
STAGE 3 - HCV		
HCV420	Heavy Diesel Engine	AUT364
HCV421	Heavy Diesel Engine Workshop	AUT365
HCV422	Heavy Control System	AUT360
HCV423	Heavy Control System Workshop	AUT360
AUT 440	Vehicle Mechanical Science I	AUT362
AUT 443	Computer Aided Drawing	MER
QUARTER 3		
STAGE 4 - HCV		
HCV424	Powertrain	HCV420
HCV425	Powertrain Workshop	HCV421
HCV426	HCV Road Worthiness	HCV422
HCV427	HCV Project	HCV423
AUT 441	Mechanical Science II	AUT 362
AUT442	Automotive Commercial	COM303
QUARTER 4		

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.