

Curriculum Goals:

To provide students with the opportunity to experience the work of an automotive technician to assist them in making an informed decision for further study and/or employment. This course is practical and experiential. Students will be given the opportunity to learn through engaging in realistic and authentic tasks.

Vocational Pathway: Manufacturing and Technology

Learner Goals and Outcomes: On completion this course, the student will be able to:

1. Demonstrate knowledge of workplace health and safety requirements in an automotive workshop.
2. Identify the general locations and functions of motor vehicle systems and main components.
3. Demonstrate knowledge of the operation of two and four stroke petrol and diesel engines.
4. Disassemble and reassemble a single cylinder or multi-cylinder four stroke engine under supervision.
5. Demonstrate knowledge of interchanging and balancing road wheels in the motor industry.
6. Balance wheels off a vehicle in the motor industry.
7. Remove and replace road wheels on a vehicle.
8. Remove and replace motor vehicle lamps.

Unit Standards					
Unit No	Title	Level	Credits	Version	SR/R
16113	Demonstrate knowledge of safe working practices in an automotive workshop	2	2	7	SR
229	Identify the general locations and functions of motor vehicle systems and main components	2	4	10	SR
231	Explain the operation of two and four stroke petrol and diesel engines	2	4	11	SR
21691	Disassemble and reassemble a single cylinder or multi-cylinder four stroke engine under supervision	1	2	2	R
21679	Demonstrate knowledge of interchanging and balancing road wheels in the motor industry	2	2	2	SR
21722	Balance wheels off a vehicle in the motor industry	2	2	1	R
21869	Remove and replace road wheels on a vehicle	2	1	4	R
21719	Remove and replace motor vehicle lamps	2	3	2	SR
	Total DAS Credits		20		

Vocational Pathways: SR = Sector Related; R = recommended

To receive a Vocational Pathways Award, students must gain NCEA Level 2. Within the 80 credits required to achieve NCEA Level 2, 60 of these Level 2 credits must be from the recommended standards in one or more pathways, including 20 Level 2 credits from sector related standards.

Methods of Assessment: Three forms of assessment will be used

1. Written tests (students will be advised of date, time and location)
2. Simulated practical tests
3. Practical demonstrations