

New Zealand Certificate in Motorcycle Engineering (Level 4) [Ref: 3447]			
<b>Level</b>	4	<b>Credits</b>	161
<b>Assessment standards aligned with qualification outcomes</b>			
<b>Outcomes</b>		<b>Assessment Standards</b>	
<p>Outcome 1</p> <p>Monitor the workplace and respond to issues as required to maintain a safe and effective workplace</p> <p>(Credits 15)</p>		<p>31065 - Demonstrate knowledge of estimates and quotations in the automotive industry (Level 4, credits 3)</p> <p>22789 - Demonstrate knowledge of warranties and guarantees that apply to the automotive industry (Level 4, credits 4)</p>	
<p>Outcome 2</p> <p>Apply the appropriate precautionary measures when servicing and repairing high risk motorcycle systems</p> <p>(Credits 10)</p>		<p>31439 - Demonstrate knowledge of a pre-delivery inspection on a vehicle or machine (Level 3, credits 3)</p> <p>31436 - Carry out a pre-delivery inspection on a vehicle or machine (Level 4, credits 3)</p> <p>31064 - Describe the operation of vehicle electronic braking systems (Level 4, credits 4)</p>	
<p>Outcome 3</p> <p>Diagnose and repair common faults in motorcycle engines and driveline systems</p> <p>(Credits 55)</p>		<p>30886 - Diagnose the mechanical condition of an engine (Level 4, credits 4)</p> <p>31194 - Demonstrate knowledge of carburettor operation (Level 3, credits 5)</p> <p>31051 - Replace an automotive clutch assembly (Level 4, credits 8)</p> <p>31050 - Diagnose and repair automotive driveline system faults (Level 4, credits 10)</p> <p>31056 - Demonstrate knowledge of engine management system fault diagnosis (Level 4, credits 4)</p> <p>31048 - Diagnose and repair engine management system faults (Level 4, credits 10)</p> <p>30887 - Replace an automotive timing belt or chain (Level 4, credits 4)</p> <p>31125 - Diagnose and repair vehicle or machine cooling system faults (Level 4, credits 6)</p> <p>31437 - Diagnose and repair faults in a motorcycle engine (Level 4, credits 8)</p>	
<p>Outcome 4</p>		<p>30881 - Describe automotive scan tools and oscilloscopes (Level 4, credits 5)</p>	

<p>Diagnose and repair common faults in motorcycle electronic and electrical systems (Credits 45)</p>	<p>30873 - Carry out diagnostic procedures using an automotive scan tool (Level 4, credits 8)</p> <p>31057 - Demonstrate knowledge of diagnosing automotive emission control system faults (Level 3, credits 4)</p> <p>31049 - Diagnose and repair automotive emission control system faults (Level 4, credits 10)</p> <p>31435 - Diagnose and repair faults in manual starting systems (Level 4, credits 2)</p> <p>31128 - Demonstrate knowledge of automotive wiring harness design and manufacture (Level 3, credits 4)</p> <p>30435 - Demonstrate knowledge of vehicle emissions (Level 3, credits 4)</p> <p>30436 - Demonstrate knowledge of electronic fuel injection (EFI) system (Level 3, credits 2)</p> <p>30876 - Diagnose and rectify faults in vehicle or machine charging and starting systems (Level 4, credits 6)</p> <p>30880 - Describe automotive electronic components, actuators, sensors and signals (Level 3, credits 5)</p>
<p>Outcome 5 Diagnose and repair common faults in motorcycle steering, suspension and braking systems (Credits 35)</p>	<p>30885 - Demonstrate knowledge of automotive diagnostic and repair procedures (Level 3, credits 5)</p> <p>31066 - Demonstrate knowledge of electronically controlled steering and suspension systems, and system fault diagnosis (Level 4, credits 6)</p> <p>24429 - Demonstrate knowledge of motorcycle frame, steering, and suspension systems (Level 4, credits 6)</p> <p>24442 - Remove and replace motorcycle steering and suspension components (Level 4, credits 4)</p> <p>31063 - Demonstrate knowledge of hydraulic brake system fault diagnosis (Level 4, credits 2)</p> <p>31055 - Diagnose and repair vehicle electronic braking system faults (Level 4, credits 8)</p> <p>31054 - Diagnose and repair hydraulic braking system faults (Level 4, credits 4)</p>