

New Zealand Certificate in Automotive Diesel Fuel Technology (Level 4)			
<b>Level</b>	4	<b>Credits</b>	184
<b>Assessment standards aligned with qualification outcomes</b>			
<p>Outcome 1</p> <p>Apply health and safety requirements to an automotive workplace</p> <p>(Credits 15)</p>	<p>31292 - Demonstrate knowledge of workplace procedures relating to hazardous substances (Level 3, credits 2)</p> <p>3856 - Identify emergency procedures in the motor and related industries (Level 3, credits 2)</p> <p>30573 - Demonstrate knowledge of a supplemental restraint system (Level 3, credits 2)</p>		
<p>Outcome 2</p> <p>Diagnose faults and repair diesel fuel mechanical, and electronic, delivery systems</p> <p>(Credits 130)</p>	<p>30477 - Demonstrate knowledge of petrol and diesel engines (Level 3, credits 4)</p> <p>30437 - Demonstrate knowledge of the operation of a diesel fuel system (Level 3, credits 2)</p> <p>24195 - Demonstrate knowledge of diesel fuel injectors (Level 4, credits 4)</p> <p>31391 - Test and repair diesel fuel injectors (Level 4, credits 8)</p> <p>31392 - Diagnose and repair faults in diesel fuel injection systems (Level 4, credits 6)</p> <p>31400 - Demonstrate knowledge of inline diesel fuel injection pumps (Level 4, credits 5)</p> <p>31401 - Demonstrate knowledge of radial piston diesel fuel injection pumps (Level 4, credits 8)</p> <p>31402 - Demonstrate knowledge of axial diesel fuel injection pumps (Level 4, credits 5)</p> <p>31221 - Describe diesel engine tuning (Level 3, credits 6)</p> <p>31214 - Tune a diesel engine (Level 4, credits 8)</p> <p>31393 - Overhaul inline diesel fuel injection pumps (Level 4, credits 6)</p> <p>31394 - Overhaul radial piston diesel fuel injection pumps (Level 4, credits 6)</p> <p>31395 - Overhaul axial diesel fuel injection pumps (Level 4, credits 8)</p> <p>31404 - Demonstrate knowledge of Bosch mechanical diesel fuel governors (Level 4, credits 6)</p> <p>31405 - Demonstrate knowledge of Japanese diesel fuel governors (Level 4, credits 6)</p>		

	<p>31406 - Demonstrate knowledge of electronic diesel fuel governors (Level 4, credits 4)</p> <p>31396 - Overhaul mechanical diesel fuel governors (Level 4, credits 10)</p> <p>30880 - Describe automotive electronic components, actuators, sensors and signals (Level 3, credits 5)</p> <p>30571 - Demonstrate knowledge of the principles and testing of automotive electrical circuits (Level 3, credits 6)</p> <p>31058 - Demonstrate knowledge of a diesel engine management system (Level 4, credits 2)</p> <p>31056 - Demonstrate knowledge of engine management system fault diagnosis (Level 4, credits 4)</p> <p>30435 - Demonstrate knowledge of vehicle emissions (Level 3, credits 4)</p> <p>31057 - Demonstrate knowledge of diagnosing automotive emission control system faults (Level 3, credits 4)</p> <p>31403 - Demonstrate knowledge of common rail diesel fuel injection pumps (Level 4, credits 5)</p> <p>30881 - Describe automotive scan tools and oscilloscopes (Level 4, credits 5)</p> <p>30873 - Carry out diagnostic procedures using an automotive scan tool (Level 4, credits 8)</p> <p>30885 - Demonstrate knowledge of automotive diagnostic and repair procedures (Level 3, credits 5)</p>
<p>Outcome 3</p> <p>Diagnose faults and repair air induction systems</p> <p>(Credits 35)</p>	<p>30480 - Demonstrate knowledge of automotive cooling systems and engine coolant (Level 3, credits 2)</p> <p>30559 - Demonstrate knowledge of induction and exhaust systems (Level 3, credits 4)</p> <p>31229 - Describe a heavy vehicle or machine induction system, turbochargers and induction and exhaust system diagnosis (Level 4, credits 5)</p> <p>31407 - Demonstrate knowledge of automotive turbochargers (Level 4, credits 4)</p> <p>31397 - Overhaul an automotive turbocharger (Level 4, credits 8)</p> <p>31398 - Diagnose faults in a turbocharger on a vehicle or machine, and remove and refit a turbocharger on an engine (Level 4, credits 5)</p>

# Programme Guidance for Education Organisations

