

## AUTOMOTIVE WORKBOOKS 2021-LEVEL 2

Unit	Title	Level	Credit	Ver	Theory/ Practical
229	Identify the general locations and functions of motor vehicle systems and main components	2	4	10	T
21687	Demonstrate knowledge of a basic engine tune up	2	3	3	T
243	Carry out basic engine tuning on a four stroke engine.	2	4	9	P
21687	Demonstrate knowledge of a basic engine tune up	2	3	3	T
21688	Demonstrate knowledge of disassemble and reassemble of a 4 stroke engine	2	3	2	T
21691	Disassemble and reassemble a single cylinder	1	2	2	P
244	Disassemble and assemble a four stroke engine.	2	6	10	P
21691	Disassemble and reassemble a single cylinder	1	2	2	P
21688	Demonstrate knowledge of disassemble and reassemble of a 4 stroke engine	2	3	2	T
21691	Disassemble and reassemble a single cylinder	1	2	2	P
247	Prepare a vehicle and/or a machine for use and shut down after use.	2	2	9	P
247	Prepare a vehicle and/or a machine for use and shut down after use.	2	2	9	P
21690	Perform general servicing checks on a motor vehicle	2	3	2	P
248	Describe an apprenticeship employment contract for the automotive industry.	2	1	9	T
21668	Demonstrate knowledge of cleaning automotive components	2	2	2	T
924	Clean automotive components and maintain equipment.	2	1	6	P
21668	Demonstrate knowledge of cleaning automotive components	2	2	2	T
30514	Carry out minor servicing tasks on an ignition system	2	3	1	P
3877	Protect vehicle electronics	2	2	8	T
4261	Identify legal rights and obligations in relation to owning and operating a private motor vehicle	2	3	6	T
12349	Demonstrate knowledge of time management	2	3	6	T
15408	Describe motor vehicle safe motoring requirements and general locations of systems and components	2	4	6	T
30476	Demonstrate knowledge of tools and equipment used in the motor industry	2	2	2	T
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21858	Select and use hand tools and workshop equipment for an automotive application	2	2	1	P

Unit	Title	Level	Credit	Ver	Theory/ Practical
30475	Demonstrate knowledge of motor industry engineering tasks	2	2	1	T
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21671	Carry out general engineering tasks in the Motor Industry	2	4	2	P
21672	Demonstrate knowledge of new and emerging technology	2	5	2	T
21674	Demonstrate knowledge of terminology used in the motor industry	2	2	2	T
21679	Demonstrate knowledge of interchanging and balancing road wheels in the motor industry	2	2	2	T
21869	Remove and replace road wheels in the motor industry	2	1	4	p
21869	Remove and replace road wheels in the motor industry	2	1	4	P
21722	Balance wheels off a vehicle in the motor industry	2	2	1	P
21679	Demonstrate knowledge of interchanging and balancing road wheels in the motor industry	2	2	2	T
21701	Demonstrate knowledge of motor body parts and trim	2	2	3	T
21716	Select and apply lubricants and sealants for automotive and related industry applications	2	1	2	P
30478	Demonstrate knowledge of automotive lubricants	2	2	1	T
30478	Demonstrate knowledge of automotive lubricants	2	2	1	T
21716	Select and apply lubricants and sealants for automotive and related industry applications	2	1	2	P
21718	Demonstrate knowledge of hazardous materials used in the motor industry	2	2	2	T
21857	Identify the occupational areas and structures of the New Zealand automotive industry.	2	2	3	T
29579	Demonstrate knowledge of good work habits and safe working practices in the automotive industry	2	4	1	T
29579	Demonstrate knowledge of good work habits and safe working practices in the automotive industry	2	4	1	T
29580	Demonstrate good work habits and safe work practices in the automotive industry	2	4	2	P
30572	Demonstrate knowledge of vehicle or machine batteries	2	3	1	T
21719	Remove and replace motor vehicle lamps	2	3	2	P

## **AUTOMOTIVE WORKBOOKS 2021-LEVEL 3**

<b>Unit</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Ver</b>	<b>Theory/ Practical</b>
898	Identify a wiring diagram and translate information into a circuit	3	3	4	P
920	Describe the construction and operation of manual and semi automatic transmissions used on light vehicles	3	4	4	T
3856	Demonstrate emergency procedures in the motor and related trades.	3	2	9	T
5766	Demonstrate knowledge of motor vehicle safety systems	3	4	5	T
22799	Demonstrate safety precautions fitted with air bags and/or pre-tensioners	3	1	1	P
23743	Demonstrate knowledge of general legislation and regulations	3	2	3	T
30570	Demonstrate knowledge of welding	3	3	1	T
24275	Disassemble, inspect and reassemble an engine short block	3	3	1	P
30435	Demonstrate knowledge of vehicle emissions	3	4	1	T
30436	Demonstrate knowledge of an EFI system	3	2	1	T
30437	Demonstrate knowledge of a diesel fuel system	3	2	1	T
30477	Demonstrate knowledge of petrol and diesel engines	3	4	1	T
30479	Service and automotive cooling systems	3	3	1	P
30515	Remove and refit intake and exhaust system components	3	3	1	P
5742	Protect electronics when servicing vehicles	3	2	5	P
21719	Remove and replace motor vehicle lamps	2	3	2	P
24093	Rectify simple lighting faults and adjust lamps	3	3	2	P
30572	Demonstrate knowledge of vehicle or machine batteries	2	3	1	T
30556	Service an automotive battery	3	3	1	P
30571	Demonstrate knowledge of principles and testing automotive electrical circuits	3	6	1	T
30571	Demonstrate knowledge of principles and testing automotive electrical circuits	3	6	1	T
30558	Test and repair automotive electrical circuits	3	5	1	P
30565	Demonstrate knowledge of an automotive air conditioning system	3	4	1	T
30574	Demonstrate knowledge of ignition systems	3	3	1	T

<b>Unit</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Ver</b>	<b>Theory/ Practical</b>
30434	Service a vehicle and or machine	3	3	1	P
30517	Service a brake system on a vehicle	3	4	1	P
30518	Bleed a hydraulic brake system	3	2	1	P
30519	Service steering and suspension systems	3	4	1	P
30566	Demonstrate knowledge of steering and suspension systems	3	2	1	T
30568	Demonstrate knowledge of brake systems	3	4	1	T
30568	Demonstrate knowledge of brake systems	3	4	1	T
31063	Demonstrate knowledge of hydraulic brake system fault diagnosis	4	2	1	T
30480	Demonstrate knowledge of cooling systems and coolant	3	2	1	T
30561	Demonstrate knowledge of drivelines and final drives	3	4	1	T
30563	Demonstrate knowledge of charging and starting systems	3	4	1	T