

AUTOMOTIVE WORKBOOKS

No	Unit	Title	Level	Credit	Ver	Theory/ Practical
1	21857	Identify the occupational areas and structures of the New Zealand automotive industry.	1	2	2	T
2	21670	Demonstrate knowledge of general engineering tasks in the Motor Industry	2	3	2	T
3	21670	Demonstrate knowledge of general engineering tasks in the Motor Industry	2	3	2	T
	21671	Carry out general engineering tasks in the Motor Industry	2	4	1	P
4	21669	Demonstrate knowledge of hand tools and workshop equipment for motor industry applications	2	2	2	T
5	21669	Demonstrate knowledge of hand tools and workshop equipment for motor industry applications	2	2	2	T
	21859	Select and use hand tools and workshop equipment for an automotive application	2	2	1	P
6	229	Identify the general locations and functions or motor vehicle systems and main components	2	4	9	T
7	21682	Demonstrate knowledge of an oxy-acetylene welding plant in the motor industry	2	2	1	T
8	21682	Demonstrate knowledge of an oxy-acetylene welding plant in the motor industry	2	2	1	T
	21685	Use an oxy-acetylene welding plant in the motor industry	2	3	1	P
9	231	Explain the operation of two and four stroke petrol and diesel engines	2	4	9	T
10	21707	Demonstrate knowledge of automotive electrical principles	2	6	1	T
11	21707	Demonstrate knowledge of automotive electrical principles	2	6	1	T
	21676	Select test equipment and test an automotive electrical circuit	2	4	1	P
12	233	Service an automotive battery.	2	2	8	P
13	234	Describe automotive starting and charging systems and their operation.	2	4	8	T
14	235	Describe automotive ignition systems and their operation.	2	4	8	T
15	21686	Demonstrate knowledge of automotive cooling systems.	2	2	2	T
16	21686	Demonstrate knowledge of automotive cooling systems.	2	2	2	T
	21717	Service automotive cooling systems	2	3	2	P
17	21689	Demonstrate knowledge of hydraulic brake fluid, fluid replacement, and brake bleeding procedures	2	2	1	T
18	21689	Demonstrate knowledge of hydraulic brake fluid, fluid replacement, and brake bleeding procedures	2	2	1	T
	242	Change the fluid and bleed a brake hydraulic system.	2	2	8	P

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Please Note: Highlighted theory units can be packaged for Gateway

No	Unit	Title	Level	Credit	Ver	Theory/ Practical
19	21869	Remove and replace road wheels in the motor industry	1	1	2	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
20	239	Demonstrate knowledge of automotive manual transmissions.	2	2	8	T
21	240	Demonstrate knowledge of petrol fuel systems	2	3	8	T
22	21677	Demonstrate knowledge of a diesel fuel system	2	2	1	T
23	21677	Demonstrate knowledge of a diesel fuel system	2	2	1	T
	21692	Perform minor servicing tasks on a diesel fuel system	2	2	1	P
24	21687	Demonstrate knowledge of a basic engine tune up	2	3	2	T
25	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	2	T
26	244	Disassemble and assemble a four stroke engine.	2	6	9	P
	21691	Disassemble and reassemble a single cylinder	1	2	2	P
27	21680	Demonstrate knowledge of automotive lubricants and sealants	2	2	2	T
	21716	Select and apply lubricants and sealants for automotive and related industry applications	2	1	2	P
28	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
29	248	Describe an apprenticeship employment contract for the automotive industry.	2	1	9	T
30	249	Carry out automotive industry personal workplace requirements.	2	5	9	P
31	21668	Demonstrate knowledge of cleaning automotive components	2	2	2	T
32	924	Clean automotive components and maintain equipment.	2	1	5	P
	21668	Demonstrate knowledge of cleaning automotive components	2	2	2	T
33	16113	Demonstrate knowledge of safe working practices in an automotive workshop.	2	2	5	T
	3856	Demonstrate emergency procedures in the motor and related trades.	2	2	8	T
34	16113	Demonstrate knowledge of safe working practices in an automotive workshop.	2	2	5	T
	21858	Demonstrate good work habits and perform safe working practices in the motor and related industries	2	4	1	P
	3856	Demonstrate emergency procedures in the motor and related trades.	2	2	8	T

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No	Unit	Title	Level	Credit	Ver	Theory/ Practical
35	21869	Remove and replace road wheels in the motor industry	1	1	2	p
36	21683	Demonstrate knowledge of MIG welding the motor industry	2	2	1	T
37	21683	Demonstrate knowledge of MIG welding the motor industry	2	2	1	T
	21684	Use a MIG welding plant in the Motor Industry	2	3	1	P
38	3877	Protect vehicle electronics	2	2	6	T
39	21721	Demonstrate knowledge of vehicle steering and suspension systems	2	2	1	T
40	21674	Demonstrate knowledge of terminology used in the motor industry	2	2	1	T
41	21673	Demonstrate knowledge of maintaining stock security	2	2	1	T
42	21691	Disassemble and reassemble a single cylinder	1	2	2	P
43	21720	Demonstrate knowledge of vehicle braking systems	2	2	1	T
44	21672	Demonstrate knowledge of new and emerging technology	2	5	1	T
45	918	Demonstrate knowledge of light vehicle final drive assembly operation	3	4	4	T
46	920	Describe the construction and operation of manual and semi automatic transmissions used on light vehicles	3	4	4	T
47	15373	Demonstrate knowledge of automotive air conditioning	3	4	3	T