

AUTOMOTIVE WORKBOOKS 2018-LEVEL 1+2

No	Unit	Title	Level	Credit	Ver	Theory/ Practical
1	229	Identify the general locations and functions or motor vehicle systems and main components	2	4	10	T
2	231	Explain the operation of two and four stroke petrol and diesel engines	2	4	10	T
3	233	Service an automotive battery.	2	2	9	P
	21675	Demonstrate knowledge of automotive batteries	2	2	2	T
4	234	Describe automotive starting and charging systems and their operation.	2	4	9	T
5	235	Describe automotive ignition systems and their operation.	2	4	9	T
6	239	Demonstrate knowledge of automotive manual transmissions.	2	3	9	T
7	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
8	244	Disassemble and assemble a four stroke engine.	2	6	10	P
	21691	Disassemble and reassemble a single cylinder	1	2	2	P
9	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
10	248	Describe an apprenticeship employment contract for the automotive industry.	2	1	9	T
11	249	Carry out automotive industry personal workplace requirements.	2	5	10	P
12	924	Clean automotive components and maintain equipment.	2	1	5	P
	21668	Demonstrate knowledge of cleaning automotive components	2	2	2	T
13	3877	Protect vehicle electronics	2	2	7	T
14	4261	Identify legal rights and obligations in relation to owning and operating a private motor vehicle	2	3	5	T
15	12349	Demonstrate knowledge of time management	2	3	5	T
16	15408	Describe motor vehicle safe motoring requirements and general locations of systems and components	1	4	5	T
17	21668	Demonstrate knowledge of cleaning automotive components	2	2	2	T
18	21669	Demonstrate knowledge of hand tools and workshop equipment for motor industry applications	2	2	3	T

No	Unit	Title	Level	Credit	Ver	Theory/ Practical
19	21669	Demonstrate knowledge of hand tools and workshop equipment for motor industry applications	2	2	3	T
	21859	Select and use hand tools and workshop equipment for an automotive application	2	2	1	P
20	21670	Demonstrate knowledge of general engineering tasks in the Motor Industry	2	3	3	T
21	21670	Demonstrate knowledge of general engineering tasks in the Motor Industry	2	3	3	T
	21671	Carry out general engineering tasks in the Motor Industry	2	4	2	P
22	21672	Demonstrate knowledge of new and emerging technology	2	5	1	T
23	21674	Demonstrate knowledge of terminology used in the motor industry	2	2	1	T
24	21675	Demonstrate knowledge of automotive batteries	2	2	2	T
25	21677	Demonstrate knowledge of a diesel fuel system	2	2	2	T
26	21677	Demonstrate knowledge of a diesel fuel system	2	2	2	T
	21692	Perform minor servicing tasks on a diesel fuel system	2	2	1	P
27	21679	Demonstrate knowledge of interchanging and balancing road wheels in the motor industry	2	2	2	T
28	21682	Demonstrate knowledge of an oxy-acetylene welding plant in the motor industry	2	2	1	T
29	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
30	21686	Demonstrate knowledge of automotive cooling systems.	2	2	3	T
31	21686	Demonstrate knowledge of automotive cooling systems.	2	2	3	T
	21717	Service automotive cooling systems	2	3	3	P
32	21687	Demonstrate knowledge of a basic engine tune up	2	3	3	T
33	21688	Demonstrate knowledge of disassemble and reassemble of a 4 stroke engine	2	3	2	T
34	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
35	21689	Demonstrate knowledge of hydraulic brake fluid, fluid replacement, and brake bleeding procedures	2	2	2	T
36	21689	Demonstrate knowledge of hydraulic brake fluid, fluid replacement, and brake bleeding procedures	2	2	2	T
	242	Change the fluid and bleed a brake hydraulic system.	2	2	9	P
37	21691	Disassemble and reassemble a single cylinder	1	2	2	P

No	Unit	Title	Level	Credit	Ver	Theory/ Practical
38	21701	Demonstrate knowledge of motor body parts and trim	2	2	2	T
39	21707	Demonstrate knowledge of automotive electrical principles	2	6	2	T
40	21707 21676	Demonstrate knowledge of automotive electrical principles Select test equipment and test an automotive electrical circuit	2 2	6 4	2 2	T P
41	21716	Select and apply lubricants and sealants for automotive and related industry applications	2	1	2	P
42	21718	Demonstrate knowledge of hazardous materials used in the motor industry	2	2	2	T
43	21720	Demonstrate knowledge of vehicle braking systems	2	3	2	T
44	21721	Demonstrate knowledge of vehicle steering and suspension systems	2	2	2	T
45	21857	Identify the occupational areas and structures of the New Zealand automotive industry.	1	2	2	T
46	21869	Remove and replace road wheels in the motor industry	2	1	3	p
47	21869 21722 21679	Remove and replace road wheels in the motor industry Balance wheels off a vehicle in the motor industry Demonstrate knowledge of interchanging and balancing road wheels in the motor industry	2 2 2	1 2 2	3 1 2	P P T
48	29579	Demonstrate knowledge of good work habits and safe working practices in the automotive industry	2	4	1	T
49	29579 29580	Demonstrate knowledge of good work habits and safe working practices in the automotive industry Demonstrate good work habits and safe work practices in the automotive industry	2 2	4 4	1 1	T P

AUTOMOTIVE WORKBOOKS 2017-LEVEL 3

No	Unit	Title	Level	Credit	Ver	Theory/ Practical
50	240	Demonstrate knowledge of petrol fuel systems	3	3	9	T
51	898	Identify a wiring diagram and translate information into a circuit	3	3	4	P
52	918	Demonstrate knowledge of light vehicle final drive assembly operation	3	4	4	T
53	920	Describe the construction and operation of manual and semi automatic transmissions used on light vehicles	3	4	4	T
54	3856	Demonstrate emergency procedures in the motor and related trades.	3	2	9	T
55	5461	Demonstrate knowledge of fuel emissions, and vehicle emission controls	3	4	3	T
56	5766	Demonstrate knowledge of motor vehicle safety systems	3	4	5	T
57	15373	Demonstrate knowledge of automotive air conditioning	3	4	4	T
58	21680	Demonstrate knowledge of automotive lubricants and sealants	3	3	3	T
	21716	Select and apply lubricants and sealants for automotive and related industry applications	2	1	2	P
59	21683	Demonstrate knowledge of MIG welding the motor industry	3	2	2	T
	21684	Use a MIG welding plant in the Motor Industry	3	3	2	P
60	22799	Demonstrate safety precautions fitted with air bags and/or pre-tensioners	3	1	1	P
61	23817	Demonstrate knowledge of braking principles and system component operation for light vehicles	3	5	1	T
62	23818	Demonstrate knowledge of braking system fault diagnosis and repair requirements for light vehicles	3	3	1	T
63	29371	Demonstrate knowledge of automotive electrical principles and circuit testing	3	8	1	T