

OCCUPATIONAL
TOOL AND EQUIPMENT LIST

Automotive Service Technician



Government of Newfoundland Labrador
Department of Education
Institutional & Industrial Education Division

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Preface

This document is intended as a companion to the March 2010 Plan of Training for the Automotive Service Technician occupation. It identifies the necessary tools and equipment required by apprentices and training institutions for the completion of apprenticeships.

Acknowledgements

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We offer you a sincere thank you.

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Note:

The numbers suggested in the following Tool and Equipment List represent the required minimum. Please verify this list with your selected training institution.

Tools and Equipment List Automotive Service Technician

SECTION A: TOOLS AND EQUIPMENT REQUIRED BY STUDENT			
Item	Units for individual Students	Required for Entry (E) Advanced (A) Both (B)	Comments
Hand Tools			
Basic Brake service tools	1	B	
Chisels, punches	1	B	
Feeler gauge (standard / metric)	1	B	
Hacksaw	1	B	
Hammers (ballpeen / plastic)	1 of each	B	
Hex key (standard / metric) set	1 of each	B	
Pliers, set	1	B	
Pry Bar, set	1	B	
Ratchet and socks - 1/4, 3/8, 1/2 drive (standard / metric)	1	B	
Screwdrivers	1	B	
Tape, 12' minimum	1	B	
Ruler, 12"	1	B	
Test lamp	1	B	
Tire pressure gauge	1	B	
Tool box	1	B	
Torx bits, set	1	B	
1/2" Power Bar Drive	1	B	
Utility knife	1	B	

SECTION A: TOOLS AND EQUIPMENT REQUIRED BY STUDENT			
Item	Units for individual Students	Required for Entry (E) Advanced (A) Both (B)	Comments
Locking Pliers, set	1	B	
Wire brush	1	B	
Wire strippers	1	B	
Wrench set (standard / metric)	1	B	
Safety Equipment			
Steel Nose Boots	1	B	
Coveralls	1	B	
Safety Glasses	1	B	
Welding Gloves	1	B	
Welding Goggles	1	B	

Note: If identifying sets, please include specific information.

SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION				
Item	Units per 15 students	Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
Safety Equipment				
Safety Shields	1	15	B	
Eye Wash Station	1	15	B	
Earplugs	As required		B	
Dust and Particle Masks	As required		B	
Fire Extinguishers	As required by OHS regulations		B	
First Aid Station	As required by OHS regulations		B	
Tools				
Air Hammer	1	15	B	
Air Ratchet	1	15	B	
Anti-freeze Tester	1	15	B	
Axle Boot Clamp Tool	1	15	B	
Battery Post Service Tool	1	15	B	
Blow Gun	1	15	B	
Easy Out, set	1	15	B	
Caulking Gun	1	15	B	
Compression Tester	1	15	B	
Creeper / Fender Cover	3 of each	5	B	
Crow Foot Wrenches, Set, metric / SAE	1 of each	15	B	
Dial Indicator	1	15	B	

SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION

Item	Units per 15 students	Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
Die Grinder	1	15	B	
Drill - ½", and Bits	1 set	15	B	
Drill Gauge	1	15	B	
Files, set of 5	1	15	B	
Filter Wrench (universal)	1	15	B	
Flarenut Wrench	1 set	15	B	
Flaring Tool	1	15	B	
Fuel Injection Noid Light Kit	1	15	B	
Fuel line Disconnect Set	1	15	B	
Hole Gauge	1	15	B	
Impact Driver and Bits, set	1	15	B	
Impact Wrench, ½"	1	15	B	
Impact Socket Set, ½"	1	15	B	
Inspection Mirror	1	15	B	
Magnetic Pick-up Tool	1	15	B	
Mechanic Pick Set	1	15	B	
Multimeter (DVOM)	1	15	B	
Nut Driver Set	1	15	B	
Pullers, set	1	15	B	
Rivet Gun	1	15	B	
Scraper set	1	15	B	
Seal Drivers and Extractor	1	15	B	

SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION

Item	Units per 15 students	Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
Soldering Equipment	1	15	B	
Spark Tester	1	15	B	
Standard Test Leads and Probe	1	15	B	
Stethoscope	1	15	B	
Straight Edge	1	15	B	
Stud Extractor set	1	15	B	
Tap and Die Set (Standard / Metric)	1	15	B	
Terminal Remover Tool Set	1	15	B	
Thread Files	1	15	B	
Timing Light	1	15	B	
Tin Snips (Left and Right), set	1	15	B	
Torque Angle Meter	1	15	B	
Torque Sticks	1	15	B	
Torque Wrenches (1/4, 3/8, 1/2)	1	15	B	
Tread Depth Gauge	1	15	B	
Trouble Light	5	3	B	
Tube Bending Tool	1	15	B	
Tube Cutters	2	8	B	
Upholstery Tools, set	1	15	B	
Vacuum Pump	1	15	B	
Vacuum / Pressure Gauge	1	15	B	

SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION				
Item	Units per 15 students	Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
Vernier Caliper (Standard / SAE)	1 of each	15	B	
Air compressor - hoses - inline filter and water separators	1	15	B	
Air bag simulator	1	15	B	
Air conditioning flushing equipment	1	15	A	
Air conditioning leak detection and inspection equipment	1	15	A	
Air conditioning recovery / recycle / recharge station	1	15	A	
Air conditioning service and repair tools, kit	1	15	A	
Alignment equipment	1	15	A	
Ammeter	1	15	B	
Ball joint press and adapters	1	15	B	
Battery charger / boosting equipment	1	15	B	
Battery tester / alternator and starter tester (AVR)	1	15	B	
Bearing remover	1	15	B	
Belt tension gauge	1	15	B	
Bench grinders	1	15	B	
Bench vises	5	3	B	
Black light	1	15	B	
Borescope	1	15	A	

SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION				
Item	Units per 15 students	Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
Brake drum gauge / micrometer	1	15	E	
Brake lathe	1	15	E	
Brake rotor gauge / micrometer	1	15	E	
Break out box	1	15	A	
Calibrated vessel	1	15	A	
Camshaft bearing tools (removal and installation), kit	1	15	A	
Chassis ears	1	15	A	
Compression leak down tester	1	15	A	
Shop PC – desktop or laptop	3	5	B	
Coolant drain pans	5	3	B	
Cooling system pressure tester	1	15	B	
Cooling system recovery and flushing station	1	15	E	
Core plug / expansion plug installation tool	1	15	E	
Cylinder ridge reamer	1	15	A	
Drill press, ½"	1	15	B	
Engine analyser (oscilloscope)	1	15	A	
Engine and transmission support	1	15	B	
Engine cylinder hone	1	15	A	
Engine hoist and hydraulic lift	1	15	B	
Engine stand - portable	3	5	B	
EVAP test equipment	1	15	A	

SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION

Item	Units per 15 students	Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
Exhaust fan	1	15	B	
Exhaust ventilation (hoses)	5	3	B	
Floor jack, 2 ton minimum	3	5	B	
Fuel injector flushing kit	1	15	A	
Fuel recovery and storage station	1	15	B	
Funnel	5	3	B	
Gear puller set	1	15	B	
Grease gun - oil dispensing system, fluid suction pump	1	15	B	
Hydraulic press	1	15	B	
Hydraulic transmission jack	1	15	B	
Jack stands, set of 2	6	3	B	
Wheel ramps, set of 2	6	3	B	
Leak detection equipment (refrigerants)	1	15	A	
Leak detection tank (tires)	1	15	E	
Oil drain barrels and disposal system	6	3	B	
Parts cleaner	1	15	B	
Piston ring compressor	1	15	B	
Piston ring installer	1	15	B	
Pressure washer	1	15	B	
Shop vacuum	1	15	B	
Slide hammer	1	15	B	

SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION				
Item	Units per 15 students	Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
Specialized tools for engines and transmission, kit	1	15	A	
Spring compressor - coil spring and strut spring	1	15	E	
Tire balancing equipment	1	15	E	
Tire changing machine	1	15	E	
Tire repairing equipment, kit	1	15	E	
Valve grinding equipment	1	15	A	
Valve spring compressor	1	15	A	
Vehicle hoist	2	8	B	
Welding equipment - GMAW welder and oxy	1	15	B	
Wheel chocks, set of 4	1	15	B	
Back pressure gauge	1	15	B	
Ball joint dial indicator set	1	15	B	
Coolant system pressure tester	1	15	B	
Cylinder bore gauges - small bore gauge, telescoping gauge	1 of each	15	B	
Fuel pressure gauge kit	1	15	B	
Headlamp aimer	1	15	B	
Inclinometer	1	15	B	
Micrometer - sae / metric	1	15	B	

SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION

Item	Units per 15 students	Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
Oil pressure gauge set - engine / transmission	1	15	B	
Plastic gauge	As Required		B	
Power steering pressure tester	1	15	A	
Pressure gauge	1	15	B	
Scan tool	1	15	B	
Spring scale	1	15	B	
Torque angle meter / indicator	1	15	B	

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