

# OCCUPATIONAL TOOLS AND EQUIPMENT LIST

## **Small Equipment Service Technician**



Government of Newfoundland Labrador  
Department of Advanced Education and Skills  
Apprenticeship and Trades Certification Division

JULY 2012

## **Preface**

This document is intended as a companion to the July 2012 Plan of Training for the Small Equipment Service Technician occupation. It identifies the necessary tools and equipment required by apprentices and training institutions for the completion of apprenticeships.

## **Acknowledgements**

Advisory committees, industry representatives, instructors and apprenticeship staff provided valuable input to the development of this document. Without their dedication to quality apprenticeship training, this document could not have been produced.

We offer you a sincere thank you.

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## **Note:**

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

**Tools and Equipment List**  
**Small Equipment Service Technician**

<b>SECTION A: TOOLS AND EQUIPMENT REQUIRED BY STUDENT</b>			
<b>Item</b>	<b>Units for Individual Students</b>	<b>Required for Entry (E) Advanced (A) Both (B)</b>	<b>Comments</b>
<b>HAND TOOLS AND SAFETY EQUIPMENT</b>			
Allen Wrenches (standard)	1 set	B	
Allen Wrenches (metric)	1 set	B	
Centre Punch	1	B	
Chisels	1 set	B	
Circle pliers	1 set	B	
Coveralls	2 pairs	B	
Extendable magnet	1	B	
Feeler gauge	1 of each	B	
Files	1 round, 1 mill, 1 35 q file	B	
Hacksaw	1	B	
Hammer (ball peen, soft faced)	2	B	
Measuring tape	1	B	
Pliers (combination)	1 set	B	
Safety glasses	1	B	
Screwdrivers	1 set	B	
Socket sets (standard)	1	B	
Socket sets (metric)	1 set	B	
Steel toe boots	1	B	

**SECTION A: TOOLS AND EQUIPMENT REQUIRED BY STUDENT**

Item	Units for Individual Students	Required for Entry (E) Advanced (A) Both (B)	Comments
Tap and die set (standard)	1	B	
Tap and die set (metric)	1	B	
Tire pressure gauge, 0-20 PSI	1	B	
Tire pressure gauge, 0-50 PSI	1	B	
Tool chest or roller cabinet	1	B	
Torque wrench, inch	1	B	
Torque wrench, Pound	1	B	
Torque wrench, Foot	1	B	
Utility knife	1	B	
Welding gloves	1	B	
Welding goggles	1	B	
Wire brush	1	B	
Wire stripping tool	1	B	
Wrench set (standard)	1	B	
Wrench set (metric)	1	B	
Multi-meter (analog)	1	B	

**SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION**

Item	Units per 15 Students	Maximum Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
<b>HAND TOOLS AND SAFETY EQUIPMENT</b>				
Allen Wrenches (standard)	1 set	15	B	
Allen Wrenches (metric)	1 set	15	B	
Centre Punch	2	8	B	
Chisels	1 set	15	B	
Circle pliers	1 set	15	B	
Crank truing mallet	1	15	B	
Crimping tool	1	15	B	
DC test light	1	15	B	
Dead-blow hammer	1	15	B	
Feeler gauge	3 types	5	B	
Files	4	4	B	
Hacksaw	1	15	B	
Hammer (ball peen, soft faced)	2	8	B	
Hole punch	1 set	15	B	
Hone	2	8	B	
Jumper leads	2	8	B	
Vise grips	2	8	B	
Measuring tape	1	15	B	
Multi-meter	3	5	B	
Spanner	2 sizes	8	B	
Pliers (combination)	3 sets	5	B	
Pop rivet gun	1	15	B	

**SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION**

Item	Units per 15 Students	Maximum Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
Pry bar	1 set	15	B	
Punch	1 set	15	B	
Rubber mallet	1	15	B	
Screwdrivers	1 set	15	B	
Socket sets (standard)	1 set of each size drive (1/4", 3/8", 1/2")	15	B	
Socket sets (metric)	1 set	15	B	
Straight edge	2	8	B	
Tap and die set (standard)	1 set	15	B	
Tap and die set (metric)	1 set	15	B	
Tire iron	1 set	15	B	
Tire pressure gauge, 0-20 PSI	1	15	B	
Tire pressure gauge, 0-50 PSI	1	15	B	
Torque wrench, inch	1	15	B	
Torque wrench, pound	1	15	B	
Torque wrench, foot	1	15	B	
Wire brush	3	5	B	
Wire cutting tool	1	15	B	
Wire stripping tool	1	15	B	
Wire wheel brush	1	15	B	
Wrench set (standard)	1 set	15	B	
Wrench set (metric)	1 set	15	B	
Valve core installer	2	8	B	

**SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION**

Item	Units per 15 Students	Maximum Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
<b>CUTTING / WELDING TOOLS</b>				
Electric arc welding equipment	2	8	B	
Oxy-acetylene welding & cutting equipment	2	8	B	
MIG welder	2	8	B	
Soldering equipment	3	5	B	
<b>PNEUMATIC AND ELECTRIC POWER TOOLS</b>				
Air chisel	1	15	B	
Air Compressor	1	15	B	
Angle grinder	1	15	B	
Bushing driver	1	15	B	
Compressed air gun	2	8	B	
Rotary Tool	1	15	B	
Electric drill	2	8	B	
Glass bead blaster	1	15	B	
Graduated cylinder	1	15	B	
Bench grinder	2	8	B	
Hydraulic floor jack	1	15	B	
Hydraulic press (ATV & motorcycle jack)	2	8	B	
Impact Driver	1	15	B	
Impact gun	2	8	B	
Solvent wash tank	1	15	B	
Spring shock compressor	1	15	B	

**SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION**

Item	Units per 15 Students	Maximum Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
Valve spring compressor	2	8	B	
Wet/dry vacuum	1	15	B	
<b>DIMENSIONAL MEASURING TOOLS</b>				
Battery charger	2	8	B	
Carburetor float level gauge	1	15	B	
Coil tester	1	15	B	
Compression tester	2	8	B	
Coolant tester	2	8	B	
Crankcase pressure test equipment	1	15	B	
Cylinder bore gauge	1	15	B	
Degree wheel dial indicator	1	15	B	
Dial indicator	2	8	B	
Engine tachometer	1	15	B	
Hole gauge	1	15	B	
Hydrometer	1	15	B	
Angle finds	1	15	B	
Inside micrometer	1 set	15	B	
Inside/outside calipers	1 each	15	B	
Leak-down tester	1	15	B	
Load tester	1	15	B	
Multi-meter (analog)	1	15	B	
Multi-meter (digital)	2	8	B	
Oil pressure gauge	1	15	B	

**SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION**

Item	Units per 15 Students	Maximum Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
Outside micrometer, 0"-4"	1 set	15	B	
Pounds pull gauge	1	15	B	
Pressure tester (coolant)	1	15	B	
Stethoscope	1	15	B	
Tension gauge drive belt	1	15	B	
Test light	1	15	B	
Timing light	1	15	B	
tread depth gauge	1	15	B	
Vacuum gauge	1	15	B	
Vacuum pump	1	15	B	
Vernier caliper, metric	1	15	B	
Vernier caliper, standard	1	15	B	
Vernier caliper, standard dial	1	15	B	

**SHOP TOOLS AND EQUIPMENT**

Alignment bars	1 set	15	B	
Ammeter (with induction pickup)	1	15	B	
Ball cylinder hone	1	15	B	
Bearing driver	1 set	15	B	
Bearing installation tool	1 set	15	B	
Bearing packer	1	15	B	
Bearing puller kit	1 set	15	B	
Brake cylinder hone	1	15	B	
Cable luber	2	8	B	

**SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION**

Item	Units per 15 Students	Maximum Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
Chain breaker	1	15	B	
Crank aligning jig	1	15	B	
Crankcase separator	1	15	B	
Crank installer	1	15	B	
Crankshaft puller	1	15	B	
Terminal remove kit	1	15	B	
Gasket scraper	2	8	B	
Heat gun	1	15	B	
Heli-coil set	1	15	B	
Honing stone	1	15	B	
Magnetic base	1	15	B	
Nitrogen recharging unit	1	15	B	
Oil filter wrench	2	8	B	
Parallel bars	1	15	B	
Piston pin puller	1	15	B	
Ring compressor	2	8	B	
Seal installer	1	15	B	
Slide hammer	1	15	B	
Seal hammer	1	15	B	
Spoke wrench	1 set	15	B	
Tire balancing equipment	1	15	B	
Tire machine	1	15	B	
Valve seat cutter	1 set	15	B	
Wheel truing jig	1	15	B	

Note: If identifying sets, please include specific information.