

# OCCUPATIONAL TOOLS AND EQUIPMENT LIST

## **SHEET METAL WORKER**



Government of Newfoundland Labrador  
Department of Education and Early Childhood Development  
Apprenticeship and Trades Certification Division

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## **Preface**

This document is intended as a companion to the March 2018 Plans of Training for the **Sheet Metal Worker** occupation. It identifies the necessary tools and equipment required by apprentices and training institutions for the completion of apprenticeship.

## **Acknowledgements**

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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 SHEET METAL WORKER

SECTION A: TOOLS AND EQUIPMENT REQUIRED BY STUDENT			
Item	Units for Individual Students	Required for Entry (E) Advanced (A) Both (B)	Comments
<b>PERSONAL PROTECTIVE EQUIPMENT</b>			
Coveralls	1	B	
Ear Plugs	1 set	B	
Gloves (e.g. Kevlar)	1	B	
Safety Boots	1	B	
Safety Glasses	1	B	
Welding Gloves (TIG)	2 pairs	B	
Welding Goggles	1	B	
Welding Shield	1	B	
<b>HAND TOOLS</b>			
Aviation Snips (R.H. and L.H.)	1 of each	B	
Combination or Straight Snip	1	B	
Drafting Set	1	B	
Hand Seamer/Folding Pliers	1	B	
Marking Pen	1	B	
Scratch Awl	1	B	
Screwdriver Set	1	B	
Setting Hammer	1	B	
Tape measure (1/4 in.)	1	B	

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

<b>Item</b>	<b>Units for Individual Students</b>	<b>Required for Entry (E) Advanced (A) Both (B)</b>	<b>Comments</b>
Tape measure (3/4 in.)	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>PERSONAL PROTECTIVE EQUIPMENT AND SAFETY EQUIPMENT</b>				
First Aid Kit	2	8	B	O.H. & S. Requirement
Safety Glasses	2	8	B	
Face Shield (Clear)	3	5	B	
Gloves (e.g. Kevlar)	2	8	B	
Hearing Protection (ear plugs)	15 sets	1	B	Tool Crib
Eye Wash Station(s)	2	8	B	Per shop environment
Welding Gloves (TIG)	2 pairs	8	B	
Welding Goggles	2	8	B	
Welding Shield	8	2	B	
<b>HAND TOOLS</b>				
Adjustable Wrench	5	3	B	
Metric & Standard Allen Keys	3 sets of each	5	B	
Aviation Snips R.H. and L.H.	5 of each	3	B	
Ball Peen Hammer	5	3	B	
Bulldog Snips	3	5	B	
Circumference Rule	3	5	B	
C-clamp Vise Grip	10	2	B	Various Sizes

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
Caulking Gun	1	15	B	
Center Punch	5	3	B	
Chaulk Line	1	15	B	
Cold Chisels (various)	5	3	B	
Combination Snip	1	15	B	
Dividers (various)	5	3	B	
Files (various types)	15	1	B	
Framing Square	15	1	B	
Groove Seamer - Hand Groover Set	3 sets of each size	5	B	
Hacksaw	3	5	B	
Handseamer/Folding Pliers	5	3	B	
Hand Crimpers	3 sets	5	B	
Hand Dolly (various types)	5	3	B	
Hand Notcher	1	15	B	
Level (2 ft.)	3	5	B	
Marking Pen	15	1	B	
Metal Straight Edge (1 metre)	5	3	B	
Pliers (various)	3 sets	5	B	
Plumb Bob	1	15	B	
Pop Riveter	5	3	B	
Prick Punch	5	3	B	

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Item	Units per 15 Students	Maximum Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
Rivet Set	3	5	B	
Riveting Hammer	5	3	B	
Scratch Awl	3	5	B	
Screwdriver Set	1	15	B	
Setting Hammer	4	4	B	
Socket Set	2	8	B	
Soldering Copper Sets	2	8	B	
Straight Snip	1	15	B	
Whitney Punch	1	15	B	
Wire and Bolt Cutters	1	15	B	
Wire Brushes	5	3	B	
Wooden Mallett	5	3	B	
LAYOUT AND DRAFTING EQUIPMENT				
Beam Compass	1	15	B	
Drafting Set	3	5	B	
T-Square	15	1	B	
MEASURING TOOLS				
Micrometer	1	15	B	
Spirit level (2 sizes)	2 of each	8	B	
Tape measure (1/4 in.)	2	8	B	
Tape measure (3/4 in.)	2	8	B	
Trammel Point	5	3	B	

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Item	Units per 15 Students	Maximum Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
<b>METAL FORMING STAKES</b>				
Beak Horn	1	15	B	
Bench Plate	1	15	B	
Blow Horn	1	15	B	
Candle Mould	1	15	B	
Common Square	1	15	B	
Copper Smith	1	15	B	
Creasing Stake	1	15	B	
Double Seaming with Heads	1	15	B	
Hatchet	1	15	B	
Hollow Mandrel	2	8	B	
Solid Mandrel	1	15	B	
Square Steak	1	15	B	
<b>PORTABLE POWER TOOLS AND ACCESSORIES</b>				
Angle Grinder	1	15	B	
Chop Saw	1	15	B	
Cordless Drill (1/2")	3	5	B	
Double Cutter	1	15	B	
Electric Drill (3/8")	3	5	B	
Jigsaw	1	15	B	
Reciprocating Saw	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
Portable Plasma Cutter	1	15	B	
Portable Spot Welder	1	15	B	
Unishear	1	15	B	
INSPECTION TOOLS				
Manometer	2	8	A	
Sling Psychrometer	8	2	A	
Ductulator Chart	8	2	A	
ROTARY MACHINES				
Beading Machine	1	15	B	
Burring Machine	1	15	B	
Combination Beading and Crimping Machine	1	15	B	
Double Seaming Equipment	1	15	B	
Easy Edger	1	15	B	
Elbow Edging	1	15	B	
Furnace Collar lock	1	15	B	
Slip Roll Former	1	15	B	
Turning Machine	1	15	B	
Wiring Machine	1	15	B	
SHOP TOOLS AND EQUIPMENT				
Bar Folder	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
Bench Vice	1	15	B	
Box and Pan Brake	1	15	B	
Cleat Folder	1	15	B	
Drill Press	1	15	B	
Four Foot Shear	1	15	B	
Pittsburgh Machine	1	15	B	
Soldering Furnace or Pot	1	15	B	
Universal Hand Brake (8 ft.)	1	15	B	
CNC Plasma Cutting Table (with sheet metal fitting programming)	1	15	B	
Clinch Lock Machine	1	15	B	
Magnetic Brake	1	15	B	
Hydraulic Press	1	15	B	
Hydraulic Shear	1	15	B	
Hydraulic Ironworker	1	15	B	
Power Rolls	1	15	B	
WELDING EQUIPMENT				
AC/DC Power Unit	1	15	B	
MIG Welding Equipment (GMAW)	8	2	E	Pre-employment training (E) requires 1 machine per 2 students.

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
MIG Welding Equipment (GMAW)	15	1	A	Direct entry level 1 (NLCS) and advanced levels require 1 machine per student.
Oxy-acetylene Welding Equipment	15	1	B	
TIG Welding Equipment (GTAW)	8	2	E	Pre-employment training (E) requires 1 machine per 2 students.
TIG Welding Equipment (GTAW)	15	1	A	Direct entry level 1 (NLCS) and advanced levels require 1 machine per student.