

OCCUPATIONAL  
TOOL AND EQUIPMENT LIST

**Ironworker (Structural/Ornamental)**



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

April 2026

## **Preface**

This document is intended as a companion to the 2026 Plan of Training for the **Ironworker (Structural/Ornamental)** 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.

## **Contact Information**

Department of Education and Early Childhood Development  
Apprenticeship and Trades Certification Division  
Tel: 709-729-2729 / 1-877-771-3737  
Email: [app@gov.nl.ca](mailto:app@gov.nl.ca)  
Web: [www.gov.nl.ca/atcd](http://www.gov.nl.ca/atcd)

## **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 Ironworker (Structural/Ornamental)

<b>SECTION A: TOOLS AND EQUIPMENT REQUIRED BY STUDENT</b>			
Item	Units for Individual Students	Required for Entry (E) Advanced (A) Both (B)	Comments
<b>Hand Tools</b>			
Adjustable Wrench	1	B	
Bolt Bag	1	B	
Flashlight	1	B	
Hammer (4lb)	1	B	
Tie wire reel & pad	1	B	
Sleever Bar	1	B	
Scabbard	2	B	
Bull Pin	1	B	
Barrell Pin	1	B	
Spud wrench	1 set	B	
Safety snap hook	2	B	
Tool Belt	1	B	
<b>Measuring and Layout Equipment</b>			
Measuring Tape & holder	1	B	
<b>Personal Protective Equipment (PPE)</b>			
Coveralls (Fire Retardant)	1	B	
Hard Hat	1	B	
Steel Toe Boots	1	B	
Welding Helmet or shield	1	B	

<b>SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION</b>				
<b>Item</b>	<b>Units per 15 Students</b>	<b>Maximum Students per Unit</b>	<b>Required for Entry (E) Advanced (A) Both (B)</b>	<b>Comments</b>
<b>Hand Tools</b>				
Adjustable Wrench	3	5	B	
Aligning Bar (Sleever Bar)	1	15	B	
Allen Key Set	1 set	15 per set	B	
Bar clamps (6", 8" and 12")	2 of each	8 per each	B	
Beam Clamps	1	15	B	
Bolt Bag	3	5	B	
Bolt Cutters, 24"	1	15	B	
Centre Punch	6	3	B	
Chalk Line	2	8	B	
Chipping Hammer	3	5	B	
Cold Chisel	2	8	B	
Combination Square	2	8	B	
Combination Wrench Set, Metric and Imperial	1 set of each	15 per set	B	
Drill Bits (Asst Sizes)	1 set	15 per set	B	
Files (Asst Sizes)	1 set	15 per set	B	
Flashlight	3	5	B	
Hack saw	6	3	B	
Hammers (sledge)	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
Hammers (4 lb)	3	5	B	
Knocker (slam wrench)	1	15	B	
Needle Nose Pliers	2	8	B	
Nut Drivers	1 set	15 per set	B	
Pins (drift, and bull)	1 of each	15 per each	B	
Pipe Cutters	1 set	15 per set	B	
Pipe Wrench	1	15	B	
Pliers, standard	3 sets	5 per set	B	
Pry Bar	2 sets	8 per set	B	
Punch	1 set	15 per set	B	
Reamers (asst. sizes, to include ¼ in.)	1 set	15 per set	B	
Reel Wire Holder	1	15	B	
Rod Bag	3	5	B	
Scrapers	6	3	B	
Screwdrivers: Robertson, Phillips, Flat Blades	2 of each	8 for each	B	
Side/Diagonal Cutters	3	5	B	
Socket Set	1 set	15 per set	B	
Spud Wrench	1	15	B	
Tap Set	1 set	15 per set	B	
Die Set	1 set	15 per set	B	
Tin Snips	2 sets	8 per set	B	
Tool Bucket	6	3	B	
Wire Brush	10	2	B	
<b>Power Tools and Equipment</b>				

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

<b>Item</b>	<b>Units per 15 Students</b>	<b>Maximum Students per Unit</b>	<b>Required for Entry (E) Advanced (A) Both (B)</b>	<b>Comments</b>
Air Chisel	1	15	B	
Band Saw/Electrical Saw	1	15	B	
Chop Saw	1	15	B	
Circular Saw	1	15	B	
Compressor	1	15	B	
Disk	12	2	B	
Gas Cut-off Saw	1	15	B	
Generator	1	15	B	
Grinder (bench)	2	8	B	
Grinder (portable)	6	3	B	
Hammer Drill	1	15	B	
Hydraulic Jacks	1	15	B	
Bottle Jacks	1	15	B	
Impact Gun (Electric)	1	15	B	
Mag Drill	1	15	B	
Peening Tool	1	15	B	
Pencil Grinder	1	15	B	
Porta Band Saw	1	15	B	
Powder Actuated Tool	1	15	B	
Power Drill	1	15	B	
Reciprocating Saw	1	15	B	
Tension Control 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
<b>Measuring and Layout Equipment</b>				
Bevel Squares	2	8	B	
Builders Level	2	8	B	
Measuring Tape	3	5	B	
Optical Levels	1	15	B	
Plumb Bob	6	3	B	
Rod Level	1	15	B	
Scale/Slide Rule	1	15	B	
Squares (Framing, Combination)	1	15	B	
Straight Edges	1	15	B	
Torpedo Level	1	15	B	
Transit	1	15	B	
Tripod	1	15	B	
<b>Safety Equipment</b>				
Air Movers (Fans)	6	3	B	
Anchor Points	7	2	B	
Cables/Lifelines	7	2	B	
Eye Wash Facilities	1	15	B	
Fire Blankets	as per fire inspection regulations		B	
Fire Extinguishers	as per fire inspection regulations		B	
Lifelines	1	15	B	
Portable Lighting	1	15	B	Rental permitted
Ropes (Fiber)	1 coil	15	B	
Ropes (Wire)	6 wire	3	B	

<b>SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION</b>				
<b>Item</b>	<b>Units per 15 Students</b>	<b>Maximum Students per Unit</b>	<b>Required for Entry (E) Advanced (A) Both (B)</b>	<b>Comments</b>
Stanchion Posts	1	15	B	
Warning Tape	1 roll	15 per roll	B	
Welding Flash Screens (Stationary/Portable)	15	1	B	
<b>Personal Protective Equipment (PPE)</b>				
Coveralls (Fire Retardant)	1	15	B	
Ear Plugs	3	5	B	
Face Shield	3	5	B	
Fall Arresters	1	15	B	
Full Body Harness	15	1	B	
Gloves	3	5	B	
Goggles	3	5	B	
Hard Hat	3	5	B	
Insulated Gloves	3	5	B	
Retractable Lanyard	1	15	B	
Rope Grabs	1 set	15 per set	B	
Rubber Gloves	3	5	B	
Safety Belt	3	5	B	
Safety Glasses	3	5	B	
Safety Vest	3	5	B	
Welding Apron	1	15	B	
Welding Gloves	3	5	B	
Welding Helmet or shield	3	5	B	
Welding Jacket	3	5	B	
<b>Scaffolding and Access Equipment</b>				

<b>SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION</b>				
<b>Item</b>	<b>Units per 15 Students</b>	<b>Maximum Students per Unit</b>	<b>Required for Entry (E) Advanced (A) Both (B)</b>	<b>Comments</b>
Aerial Work Platforms	1	15	B	Rental permitted
Aluminum Framed Platform with Planks	1	15	B	Rental permitted
Extension Ladder	1	15	B	
Sawhorses	2	8	B	
Stepladders	1	15	B	
Overhead Crane, 5 ton minimum	1	15	B	
<b>Specialty Tools and Equipment (Welding and Cutting Tools)</b>				
Arc Air (Gouger)	1	15	B	
Arc Welding Machine	7	Rotation schedule needed for class of 15	B	
Cutting Tools (oxygen, acetylene, )	1 set	15 per set	B	
Cutting Tool Torches	3 sets	6	B	
Cutting Tool Gauges	3 sets	6	B	
Cutting Tool Hoses	3 sets	6	B	
MIG welder	1	15	B	
Plasma Cutter	1	15	B	
Tiger Torch	1	15	B	
<b>Handling Equipment</b>				
Boom Trucks	1	15	B	Rental permitted
Chain Falls	1	15	B	
Come-Along	1	15	B	
Pallet Jack	1	15	B	
<b>Rigging Equipment</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
Cable Clamps	12	2	B	
Dunnage (wood)	As needed		B	
Fiber Rope	1 coil	15	B	
Hooks	1 set	15	B	
Shackles	1 set	15	B	
Softeners (Cardboard etc.)	As needed		B	
Spreaders	1	15	B	
Synthetic Slings	1	15	B	
Turnbuckles	1	15	B	
Wire Rope	1 coil	15	B	
Wire Rope Slings	1	15	B	