

# OCCUPATIONAL TOOLS AND EQUIPMENT LIST

## **Construction and Industrial Electrician**



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 December 2024 Plans of Training for the **Construction and Industrial Electrician** occupations. 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.

## **Contact Information**

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## **Note:**

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

## Tools and Equipment List

### CONSTRUCTION AND INDUSTRIAL ELECTRICIAN

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>			
Gloves	1	B	Cut resistant
Hard Hat	1	B	CSA Approved – Type 2 Side Impact – Class E Colour: not white
Hi-Visibility Safety Vest	1	B	Velcro closure
Safety Boots	1	B	CSA Approved - Grade 1 – min. 8 in. ankle height, secured by laces; made of leather, rubber or Gortex. Contains the green triangle; white rectangular label with orange Omega ( $\Omega$ ) symbol.
Safety Glasses / Goggles	1	B	with side shield
<b>Hand Tools</b>			
Adjustable Wrench – 6 in. <b>or</b> 8 in.	1	B	
Cable Splicing Knife (Electrician's)	1	B	Hooked tip
Hammer: • Claw - 16 oz.	1	B	
Combination Wire Stripper	1	B	
Digital Clamp Multimeter CAT-III (clamp-on with leads)	1	B	Optional purchase
Hack Saw	1	B	
Level – Torpedo (Magnetic)	1	B	

<b>Item</b>	<b>Units for Individual Students</b>	<b>Required for Entry (E) Advanced (A) Both (B)</b>	<b>Comments</b>
Measuring Tape (25 ft.) – Standard and Metric	1	B	
Pliers: <ul style="list-style-type: none"> <li>• Diagonal Side-Cutting</li> <li>• Needle Nose</li> <li>• Lineman’s Side-Cutting</li> <li>• Pump (slip joint) – 8 in. <b>or</b> 9 in.</li> </ul>	1 of each	B	
Portable Toolbox <b>or</b> Bag	1	B	Lockable and sealable
Screwdrivers: <ul style="list-style-type: none"> <li>• Robertson #1, 2 and 3</li> <li>• Phillips #1 and 2</li> <li>• Standard #1, 2 and 3</li> </ul>	1 of each	B	
Speed Square	1	B	

Note: If identifying sets, please include specific information.

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>Safety &amp; Personal Protective Equipment</b>				
Arc Flash Equipment	1 set	15 per set	B	For demonstration
Eye Wash Station	--	--	B	As required by OHS regulations
First Aid Station (including a First Aid Kit)	--	--	B	As required by OHS regulations
Fire Blanket	--	--	B	As required by OHS regulations
Fire Extinguisher	--	--	B	As required by OHS regulations
Gloves	3	5	B	Cut resistant
Hard Hat	5	3	B	CSA Approved – Type 2 Side Impact – Class E
Hearing Protection	2 boxes (100 per box)	15	B	Disposable
Hi-Visibility Safety Vest	3	5	B	Velcro closure
High Voltage Gloves	1	15	B	For demonstration
Fall Protection – Safety Harness	1	15	B	For demonstration
Face Shield	5	3	B	Clip-on
Safety Glasses / Goggles	3	5	B	with side shield
<b>Hand Tools</b>				
Allen Key Set – Metric and Imperial	2 sets of each	8 per set	B	
Bolt Cutter	1	15	B	
Cable Splicing Knife (Electrician's)	3	5	B	Hooked tip
Center Punch Set	2 sets	8 per set	B	
Chalk Line	2	8	B	
Cold Chisel Set	2 sets	8 per set	B	
Combination Wire Stripper	3	5	B	

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Item	Units per 15 Students	Maximum Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
Crimper: <ul style="list-style-type: none"> <li>• Hand</li> <li>• Hydraulic</li> </ul>	1 of each	15 per each	B	
Crowbar	1	15	B	
Clamp – 5 in.	5	3		
File: <ul style="list-style-type: none"> <li>• Flat</li> <li>• Round</li> <li>• Triangle</li> </ul>	2 of each	8 per each	B	
Fish Tape – Metal/Fiberglass	3	5	B	
Fuse Puller	2	8	B	
Hack Saw	3	5	B	
Hammer: <ul style="list-style-type: none"> <li>• Claw - 16 oz.</li> <li>• Sledgehammer</li> </ul>	1 of each	15 per each	B	
Hand Conduit Bender: <ul style="list-style-type: none"> <li>• E.M.T. - ½ in. and ¾ in.</li> <li>• EMT - 1 ¼ in.</li> <li>• Rigid - 1 in.</li> </ul>	15 of each 1 1	1 15 15	B	Demo only for EMT 1 ¼ in. and Rigid benders
Hole Saw Kit	3 kits	5 per kit	B	
Knockout Cut Set – 1/2 in. to 2 in: <ul style="list-style-type: none"> <li>• Manual</li> <li>• Hydraulic</li> </ul>	1 of each	15 per each	B	
Lock-Out Kit: <ul style="list-style-type: none"> <li>• Scissors</li> <li>• Breaker-lock</li> <li>• Lock tags</li> </ul>	1 kit	15 per kit	B	
Level – Torpedo (Magnetic)	3	5	B	
Measuring Tape (25 ft.) – Standard and Metric	3	5	B	

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Item	Units per 15 Students	Maximum Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
MI Cable Potting Tool	4	4	B	
MI Cable Stripper	4	4	B	
Nut Driver Set - Hollow Shaft: <ul style="list-style-type: none"> <li>Imperial</li> <li>Metric</li> </ul>	1 set of each	15 per set	B	
Pipe Cutters – ½ in. to 2 in.	1 set	15 per set	B	
Pipe Stand	1	15	B	
Pipe Threaders – ½ in. to 2 in.	3 sets	5 per set	B	
Pliers: <ul style="list-style-type: none"> <li>Diagonal Side-Cutting</li> <li>Needle Nose</li> <li>Lineman's Side-Cutting</li> <li>Pump (slip joint) – 8 in. <b>or</b> 9 in.</li> </ul>	2 of each	8 per each	B	
Ratchet Wire Cutter (Hand-Held)	1	15	B	
Reamer	1 set	15 per set	B	
Rubber Mallet	1	15	B	
Screwdriver: <ul style="list-style-type: none"> <li>Robertson #1, #2 and #3</li> <li>Phillips #1 and #2</li> <li>Standard #1, #2 and #3</li> </ul>	2 of each	8 per each	B	
Screw Extractor Set	1 set	15 per set	B	
Socket Set: <ul style="list-style-type: none"> <li>3/8 in. drive</li> <li>½ in. drive</li> </ul>	1 set of each	15 per set	B	
Speed Square	3	5	B	

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Item	Units per 15 Students	Maximum Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
Stud Finder	1	15	B	
Tap and Die Set: <ul style="list-style-type: none"> <li>• Metric</li> <li>• Imperial</li> </ul>	1 set of each	15 per set	B	
Tin Snips	1 set	15 per set	B	
Torque Wrench	1	15	B	
Wood Chisel	1 set	15 per set	B	
Wrench: <ul style="list-style-type: none"> <li>• Adjustable Pipe Wrench</li> <li>• Combination Wrench (Metric)</li> <li>• Combination Wrench (Imperial)</li> </ul>	2 of each	8 per each	B	
Power Tools				
Bench Grinder	1	15	B	
Chop Saw	1	15	B	
Circular Saw	1	15	B	
Conduit Bender – Hydraulic / Electric	1	15	B	
Drill Press	1	15	B	
Jig Saw	1	15	B	
Percussion Hammer Drill – Electric	1	15	B	
Powder-Actuated Tool	1	15	B	
Power Drill – Corded and/or Rechargeable	5	3	B	
Power Pipe Cutter and Threader	1	15	B	Optional
Rigid PVC Heat Gun	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
Rigid PVC Heating Blanket	1	15	B	
Rigid PVC Heat Oven	1	15	B	
Measuring Equipment				
Digital Clamp Multimeter CAT-III	5	3	B	clamp-on with leads
Megohmmeter CAT-III	1	15	B	
Micrometer	1	15	B	
Oscilloscope	1	15	A	
Phase Rotation Meter	1	15	A	
Polarity Tester – Receptacle plug-in type with ground fault tester	2	8	B	
Tachometer	1	15	B	
Thermometer – Infrared Electronic	1	15	B	
Voltage Tester Probe	2	8	B	
Shop Equipment				
Block and Tackle	1	15	B	For demonstration only
Cad-Weld Kit	1 kit	15 per kit	B	For demonstration only
Come-Along	1	15	B	For demonstration only
Drill Bits: <ul style="list-style-type: none"> <li>Steel</li> <li>Concrete</li> <li>Spade</li> <li>Auger</li> </ul>	2 sets of each	8 per each set	B	
Extension Cord – Grounded	3	5	B	
Ladder: <ul style="list-style-type: none"> <li>Fiberglass Extension</li> </ul>	1	15	B	

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<ul style="list-style-type: none"> <li>Fiberglass Step</li> </ul>	15	1		
Nylon Sling	2	8	B	For demonstration only
Reel Jacks	1 set	15	B	
Rope – 100 ft.	1 roll	15	B	
Safety Padlock	5	3	B	For locking equipment
Scaffolding: <ul style="list-style-type: none"> <li>Braces</li> <li>Platforms</li> <li>Toe boards</li> <li>Metal frames</li> <li>Side brackets</li> <li>Levellers</li> </ul>	1 assembly (2 sections)	15 per assembly	B	For demonstration only
Shackles – 1 in. to 3 in.	1 set	15 per set	B	For demonstration only
Soldering Apparatus / Equipment: <ul style="list-style-type: none"> <li>Electric</li> <li>Non-Electric</li> </ul>	1 kit of each	15 per kit	B	For demonstration only
Vacuum / Shop Vac	1	15	B	
Wire Rack	1	15	B	

Note: If identifying sets, please include specific information.