

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

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
Web: www.gov.nl.ca/atcd

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
Personal Protective Equipment			
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 (Ω) symbol.
Safety Glasses / Goggles	1	B	with side shield
Hand Tools			
Adjustable Wrench – 6 in. or 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	

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

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
Crimper: • Hand • Hydraulic	1 of each	15 per each	B	
Crowbar	1	15	B	
Clamp – 5 in.	5	3	B	
File: • Flat • Round • Triangle	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: • Claw - 16 oz. • Sledgehammer	1 of each	15 per each	B	
Hand Conduit Bender: • E.M.T. - $\frac{1}{2}$ in. and $\frac{3}{4}$ in. • EMT - 1 $\frac{1}{4}$ in. • Rigid - 1 in.	15 of each 1 1	1 15 15	B	Demo only for EMT 1 $\frac{1}{4}$ in. and Rigid benders
Hole Saw Kit	3 kits	5 per kit	B	
Knockout Cut Set – 1/2 in. to 2 in: • Manual • Hydraulic	1 of each	15 per each	B	
Lock-Out Kit: • Scissors • Breaker-lock • Lock tags	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: • Imperial • Metric	1 set of each	15 per set	B	
Pipe Cutters – $\frac{1}{2}$ in. to 2 in.	1 set	15 per set	B	
Pipe Stand	1	15	B	
Pipe Threaders – $\frac{1}{2}$ in. to 2 in.	3 sets	5 per set	B	
Pliers: • Diagonal Side- Cutting • Needle Nose • Lineman's Side- Cutting • Pump (slip joint) – 8 in. or 9 in.	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: • Robertson #1, #2 and #3 • Phillips #1 and #2 • Standard #1, #2 and #3	2 of each	8 per each	B	
Screw Extractor Set	1 set	15 per set	B	
Socket Set: • $\frac{3}{8}$ in. drive • $\frac{1}{2}$ in. drive	1 set of each	15 per set	B	
Speed Square	3	5	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
Stud Finder	1	15	B	
Tap and Die Set: <ul style="list-style-type: none"> • Metric • Imperial 	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"> • Adjustable Pipe Wrench • Combination Wrench (Metric) • Combination Wrench (Imperial) 	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	

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
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"> • Steel • Concrete • Spade • Auger 2 sets of each	8 per each set	B	
Extension Cord – Grounded				
Ladder:	<ul style="list-style-type: none"> • Fiberglass Extension 	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
• Fiberglass Step	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:				
• Braces				
• Platforms				
• Toe boards				
• Metal frames				
• Side brackets				
• Levellers				
Shackles – 1 in. to 3 in.	1 set	15 per set	B	For demonstration only
Soldering Apparatus / Equipment:				
• Electric				
• Non-Electric				
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.