

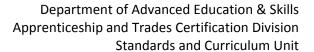
OCCUPATIONAL TOOLS AND EQUIPMENT LIST

Construction and Industrial Electrician



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

March 2013





Preface

This document is intended as a companion to the March 2013 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.

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Contact Information

Department of Advanced Education and Skills Apprenticeship and Trades Certification Division

Tel: 709-729-2729 / 1-877-771-3737

Email: app@gov.nl.ca
Web: www.gov.nl.ca/app

Note:

The numbers suggested in the following Tools 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						
ltem	Units for Individual Students	Required for Entry (E) Advanced (A) Both (B)	Comments			
Protective Clothing and Devices						
Safety Boots	1	В				
Gloves	1	В				
Goggles/Safety Glasses	1	В				
Hard Hat	1	В	CSA Approved - Side Impact			
		Hand Tools				
Adjustable Wrenches - 6" and 8"	1 of each	В				
Combination Wire Stripper	1	В				
Electrician's Knife	1	В				
Flashlight	1	В				
Gyproc Saw	1	В				
Hack Saw	1	В				
Hammers – Claw and Ball Peen	1	В				
Level – Torpedo (Magnetic)	1	В				
Measuring Tape	1	В				
Multimeter CAT-III	1	В				
Pliers: Diagonal Side-Cutting Lineman's Side-Cutting Needle Nose Pump (slip joint) 8" or 9" pliers	1 of each	В				
Portable Tool Box/Bag/Pouch	1	В				



SECTION A: TOOLS AND EQUIPMENT REQUIRED BY STUDENT						
Item	Units for Individual Students	Required for Entry (E) Advanced (A) Both (B)	Comments			
Screwdrivers: Robertson #1, #2 and #3, Phillips #1 and #2, Standard (3 sizes)	1 of each	В				
Stud Finder	1	В				
Note: If identifying sets, please include specific information.						

SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION						
ltem	Units per 15 Students	Maximum Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments		
Protective Clothing and Devices						
Arc Flash Equipment	1 set	15	В	For demonstration		
First Aid Kit #2	2	8	В			
Fire Extinguishers	2	8	В			
Gloves	3	5	В			
Goggles/Safety Glasses	15	1	В			
Hard Hat	15	1	В	CSA Approved - Side Impact		
Hearing Protection	2 boxes of 100 per box	15	В			
High Voltage Gloves	1	15	В	For demonstration		
Safety Harness	2	8	В			
Shields	5	3	В			
Hand Tools						
Adjustable Pipe Wrench	2	8	В			
Allen Key Set (Metric and Imperial)	2 sets of each	15 per set	В			



SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION

ltem	Units per 15 Students	Maximum Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
Bolt Cutter	1	15	В	
Center Punch Set	2 sets	15 per set	В	
Chalk Line	2	8	В	
Cold Chisel Set	2 sets	8 per set	В	
Combination Wrenches - (Metric, Imperial)	2 sets	8 per set	В	
Combination Wire Stripper	3	5	В	
Crimper – Hand and Hydraulic	1 of each	15 each	В	
Crowbar	1	15	В	
Drift Punch Set	2 sets	8 per set	В	
Files - Flat, Round, Triangle	2 sets	8 per set	В	
Fuse Puller	2	8	В	
Hammer – Claw and Ball Peen	3 each	5 each	В	
Hand Conduit Benders - E.M.T. (½" – 1 ¼"), Rigid (½" to 1"), Rigid PVC, Heat Gun/Blanket	6 of each up to 1" and 1 each of larger sizes		В	
Hand-held Ratchet Wire Cutter	1	15	В	
Hole Saw	1 set	15 per set	В	
Knockout Punch Set - Hand and Hydraulic	1 of each (up to 2")	15 each	В	
MI Cable Potting Tool	1	15	В	
MI Cable Stripper	1	15	В	
Multimeter CAT-III	3	5	В	
Multiple Lock-Out Devices (Scissors and breaker-lock)	1 of each	15 each	В	
Nut Driver Set (Imperial and Metric)- Hollow Shaft	1 set of each	15 per set	В	



SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION

ltem	Units per 15 Students	Maximum Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
Pipe Cutters (½" to 2")	1 set	15 per set	В	
Pipe Stand	1	15	В	
Pipe Threaders (½" to 2")	1 set	15 per set	В	
Pliers - Diagonal Side-Cutting Lineman's Side-Cutting Needle Nose Pump (slip joint) 8" or 9" pliers	2 of each	8 per each	В	
Pry Bar	1	15	В	
Reamers	1 set	15 per set	В	
Rubber Mallet	1	15	В	
Safety Padlocks	5	3	В	
Screwdrivers: Robertson #1, #2 and #3, Phillips #1 and #2, Standard (3 sizes)	2 of each	8 per each	В	
Screw Extractor Set	1 set	15 per set	В	
Socket Set (3/8" and ½" drive)	1 set of each	15 per set	В	
Stud Finder	3	5	В	
Tap and Die Sets (Metric and Imperial)	1 set of each	15 per set	В	
Tin Snips	1 set	15 per set	В	
Torque Wrench	1	15	В	
Wood Chisel	2 sets	8 per set	В	
Power Tools				
Chop Saw	1	15	В	
Circular Saw	1	15	В	
Fish Tape – Metal/Fiberglass	1	15	В	



Bender Jig Saw

(Electric)

SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION Required for Maximum Units per Entry (E) Item Students Comments 15 Students Advanced (A) per Unit Both (B) Grinder – Bench 1 15 В Hydraulic / Electric Conduit 1 15 В В 1 15 Percussion Drill – Hammer 1 15 В

(Liectric)					
Power Drill (Corded and/or Rechargeable)	3 (2 x 3/8", 1 x ½")		В		
Power Pipe Cutter and Threaders	1	15	В	Optional	
Reciprocating Saw	1	15	В		
Vacuum (Shop Vac)	1	15	В		
	Mea	suring Equipme	nt		
Ammeter CAT-III (Clip on)	2	8	В		
Polarity Tester (Receptacle plug-in type with ground fault tester)	2	8	В		
Megohmmeter CAT-III	2	8	В		
Micrometer	1	15	В		
Multimeter CAT-III	2	8	В		
Oscilloscope	1	15	А		
Phase Rotation Meter	1	15	Α		
Tachometer	1	15	В		
Thermometer (Infrared and Electronic)	1	15	В		
Voltage Tester Probe	2	8	В		
Miscellaneous					
Arc Fault Breakers	8	2	В		
Block and Tackle	1	15	В		
Come-Along	1	15	В		



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ltem	Units per 15 Students	Maximum Students per Unit	Required for Entry (E) Advanced (A) Both (B)	Comments
Drill Bits for Steel and Concrete	2 sets of each	8 per each set	В	
Drill Bits (Wood) – Spade and Auger	2 sets of each	8 per each set	В	
Drill Press	1	15	В	
Flashlight	3	5	В	
Fiberglass Ladder - Extension	1	15	В	
Fiberglass Ladder - Step	8	2	В	
GFCI Breakers	8	2	В	
Grounded Extension Cord	3	5	В	
Heat Gun	2	8	В	
Nylon Slings	2	8	В	For demonstration only
Powder-Actuated Tools	1	15	В	
Rope – 100 ft	1 roll	15	В	For Rigging course Objectives
Scaffolding (braces, decks, toe boards, railings, wheels, levellers)	1 assembly	15 per assembly	В	2 sections
Shackles (1" to 3")	1 set	15 per set	В	For Rigging course Objectives
Sledgehammer	1	15	В	
Soldering Apparatus/Equipment - Electric and Non-Electric	1 kit of each	15 per kit	В	
Thermal Mould and Apparatus – Tee, Ground Rod	1 each	15 of each	В	

Note: If identifying sets, please include specific information.