

OCCUPATIONAL TOOLS AND EQUIPMENT LIST

Residential 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 2011 Plan of Training for the **Residential Electrician** occupation. It identifies the necessary tools and equipment required by apprentices and training institutions for the completion of apprenticeships.

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 represents the required minimum. Please verify this list with your selected training institution.

Tools and Equipment List RESIDENTIAL ELECTRICIAN

SECTION A: TOOLS AND EQUIPMENT REQUIRED BY STUDENT		
Item	Units for Individual Students	Comments
Protective Clothing and Devices		
Gloves	1	
Goggles/Safety Glasses	1	
Hard Hat	1	CSA Approved - Side Impact
Safety Boots	1	
Hand Tools		
Adjustable Wrenches - 6" and 8"	1 of each	
Allen Key Set (Metric and Imperial)	1 of each	
Clamp-on Amp Meter	1	
Combination Wire Stripper	1	
Electrician's Knife	1	
Flashlight	1	
Gyproc Saw	1	
Hack Saw	1	
Hammers – Claw and Ball Peen	1	
Level – Torpedo (Magnetic)	1	
Measuring Tape	1	
Pliers: Diagonal Side-Cutting Lineman's Side-Cutting Needle Nose	1 of each	

SECTION A: TOOLS AND EQUIPMENT REQUIRED BY STUDENT		
Item	Units for Individual Students	Comments
Pump (slip joint) 8" or 9" pliers		
Polarity Tester (Receptacle plug-in type with ground fault tester)	1	
Portable Tool Box/Bag/Pouch	1	
Screwdrivers: Robertson #1, #2 and #3, Phillips #1 and #2, Standard (3 sizes)	1 of each	
Stud Finder	1	

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	Comments
Protective Clothing and Devices			
Arc Flash Equipment	1 set	15	For demonstration
First Aid Kit #2	2	8	
Fire Extinguishers	2	8	
Gloves	3	5	
Goggles/Safety Glasses	15	1	
Hard Hat	15	1	CSA Approved - Side Impact
Hearing Protection	2 boxes of 100 per box	15	
Safety Harness	2	8	
Shields	5	3	

SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION			
Item	Units per 15 Students	Maximum Students per Unit	Comments
Hand Tools			
Adjustable Pipe Wrench	2	8	
Allen Key Set (Metric and Imperial)	2 sets of each	15 per set	
Bolt Cutter	1	15	
Center Punch Set	2 sets	15 per set	
Chalk Line	2	8	
Cold Chisel Set	2 sets	8 per set	
Combination Wrenches - (Metric, Imperial)	2 sets	8 per set	
Combination Wire Stripper	3	5	
Crimper – Hand and Hydraulic	1 of each	15 each	
Crowbar	1	15	
Drift Punch Set	2 sets	8 per set	
Files - Flat, Round, Triangle	2 sets	8 per set	
Fuse Puller	2	8	
Hammer – Claw and Ball Peen	3 each	5 each	
Hand Conduit Benders - E.M.T. ($\frac{1}{2}$ " – $1\frac{1}{4}$ "), Rigid ($\frac{1}{2}$ " to 1"), Rigid PVC , Heat Gun/Blanket	6 of each up to 1" and 1 each of larger sizes		
Hand-held Ratchet Wire Cutter	1	15	
Hole Saw	1 set	15 per set	
Knockout Punch Set - Hand and Hydraulic	1 of each (up to 2")	15 each	
MI Cable Potting Tool	1	15	

SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION			
Item	Units per 15 Students	Maximum Students per Unit	Comments
MI Cable Stripper	1	15	
Multimeter CAT-III	3	5	
Multiple Lock-Out Devices (Scissors and breaker-lock)	1 of each	15 each	
Nut Driver Set (Imperial and Metric)- Hollow Shaft	1 set of each	15 per set	
Pipe Cutters (½" to 2")	1 set	15 per set	
Pipe Stand	1	15	
Pipe Threaders (½" to 2")	1 set	15 per set	
Pliers - Diagonal Side-Cutting Lineman's Side-Cutting Needle Nose Pump (slip joint) 8" or 9" pliers	2 of each	8 per each	
Pry Bar	1	15	
Reamers	1 set	15 per set	
Rubber Mallet	1	15	
Safety Padlocks	5	3	
Screwdrivers: Robertson #1, #2 and #3, Phillips #1 and #2, Standard (3 sizes)	2 of each	8 per each	
Screw Extractor Set	1 set	15 per set	
Socket Set (3/8" and ½" drive)	1 set of each	15 per set	
Stud Finder	3	5	
Tap and Die Sets (Metric and Imperial)	1 set of each	15 per set	
Tin Snips	1 set	15 per set	

SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION			
Item	Units per 15 Students	Maximum Students per Unit	Comments
Torque Wrench	1	15	
Wood Chisel	2 sets	8 per set	
Power Tools			
Chop Saw	1	15	
Circular Saw	1	15	
Fish Tape – Metal/Fiberglass	1	15	
Grinder – Bench	1	15	
Hydraulic / Electric Conduit Bender	1	15	
Jig Saw	1	15	
Percussion Drill – Hammer (Electric)	1	15	
Power Drill (Corded and/or Rechargeable)	3 (2 x 3/8", 1 x 1/2")		
Power Pipe Cutter and Threaders	1	15	Optional
Reciprocating Saw	1	15	
Vacuum (Shop Vac)	1	15	
Measuring Equipment			
Ammeter CAT-III (Clip on)	2	8	
Megohmmeter CAT-III	2	8	
Multimeter CAT-III	2	8	
Polarity Tester (Receptacle plug-in type with ground fault tester)	3	5	
Voltage Tester Probe	2	8	
Miscellaneous			
Block and Tackle	1	15	

SECTION B: TOOLS AND EQUIPMENT REQUIRED BY TRAINING INSTITUTION			
Item	Units per 15 Students	Maximum Students per Unit	Comments
Come-Along	1	15	
Drill Bits for Steel and Concrete	2 sets of each	8 per each set	
Drill Bits (Wood) – Spade and Auger	2 sets of each	8 per each set	
Drill Press	1	15	
Flashlight	3	5	
Fiberglass Ladder - Extension	1	15	
Fiberglass Ladder - Step	8	2	
Grounded Extension Cord	3	5	
Heat Gun	2	8	
Nylon Slings	2	8	For demonstration only
Powder-Actuated Tools	1	15	
Rope – 100 ft	1 roll	15	For Rigging course Objectives
Scaffolding (braces, decks, toe boards, railings, wheels, levellers)	1 assembly	15 per assembly	2 sections
Shackles (1" to 3")	1 set	15 per set	For Rigging course Objectives
Sledgehammer	1	15	

Note: If identifying sets, please include specific information.