

OCCUPATIONAL TOOLS AND EQUIPMENT LIST

Residential Electrician



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

December 2011

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

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.

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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. (½" – 1 ¼"), Rigid (½" 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 ½")		
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.