

OCCUPATIONAL
TOOLS AND EQUIPMENT LIST

POWERLINE TECHNICIAN
(OPERATING)
(CONSTRUCTION)



Government of Newfoundland Labrador
Department of Education
Institutional & Industrial Education Division

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Preface

This document is intended as a companion to the August 2007 Plan of Training for the Powerline Technician (operating and construction) occupations. 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.

Contact Information

Department of Education
Institutional and Industrial Training Section
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 represent the required minimum. Please verify this list with your selected training institution.

**Tools and Equipment List
 Powerline Technician (Operating) (Construction)**

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			
Hard hat, complete with chin strap, CSA Type 2, Class E	1	B	
Leather gloves, winter, pair	1	B	
Leather gloves, summer, pair	1	B	
CSA grade 1, electric shock resistant boots, pair	1	B	
CSA approved safety Glasses	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
Hand Tools				
Allen keys, Metric set	1	15	B	
Allen keys, SAE set	1	15	B	
Bolt cutters	5	3	B	
Brace and bits	5	3	B	
Cable cutters	3	5	B	
Cant hook (peavey)	5	3	B	
Chisel	5	3	B	
Compression tools, set	5	3	B	
Crow bar	5	3	B	
Digging bar	5	3	B	
Drill bits, SAE set	3	5	B	
Files, assorted sizes	15	1	B	
Wood or fiberglass folding tape measure	5	3	B	
Fuse puller	1	15	B	
Hammer, 32oz ball peen with fiberglass handle	15	1	B	
Knife, utility	15	1	B	
Level	3	5	B	
Nut drivers, assorted	15	1	B	
Nylon straps	3	5	B	
pick	5	3	B	
9" pliers	15	1	B	
Plumb bob	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
Saw, buck	3	5	B	
Saw, hack	5	3	B	
Saw, hand	3	5	B	
Screwdrivers, assorted	15	1	B	
Shovel	5	3	B	
Vice	15	1	B	
Wire cutters	5	3	B	
Wrench, torque	5	3	B	
Wrench, spud	5	3	B	
Personal Protective Equipment				
Conductive clothing	1	15	A	
Fall restraint device	15	1	B	
Flame Resistant clothing	5	3	B	
Face shield, CSA approved	3	5	B	
Goggles, CSA approved	15	1	B	
Hard hat, C/W Face Shield, CSA type 2, Class E	3	5	B	
Harness, fall arrest	15	1	B	
Hearing protection, ear plugs	As required		B	
Leather gloves, Winter, pair	3	3	B	
Leather gloves, Summer, pair	3	5	B	
Rated rubber gloves/sleeves	5	3	B	
Safety glasses, CSA approved	3	5	B	
Safety vest	5	3	B	
Worker positioning system	15	1	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
Safety Equipment				
Barricade	1	15	B	
Breathing protection (paper type masks)	As Required		B	
Bucket evacuation kit and bucket rescue kit	One of each for each aerial device with bucket		B	
Caution tape	1	15	B	
Cones	5	3	B	
Confined space retrieval equipment	1	15	B	
Explosive gas, toxic gas and oxygen detectors	1	15	B	
Fire blanket	As required by OHS regulations		B	
Fire extinguisher	As required by OHS regulations		B	
First aid kit	As required by OHS regulations		B	
Flare	1	15	B	
Grounding device	5	3	B	
Pole and tower rescue and descent equipment	1	15	B	
Rescue equipment	1	15	B	
Traffic caution sign	2	8	B	
Wheel chocks, set	2 per vehicle		B	
Live-Line Tools (for operating only)				
Auxiliary arm and isolators	1	15	A	
Bypass jumper	1	15	A	
Cut out covers	1	15	A	

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
Elbow puller	1	15	A	
FRP tools (sticks), set	1	15	A	
Insulated web hoist	5	3	A	
Insulator support	5	3	A	
Load break tool	1	15	B	
Load pick-up tool	1	15	B	
Plastic line guards	10	2	B	
Plastic pole guards	5	3	B	
Rubber protective cover- up set, various types	5	3	B	
Electrical Measuring Equipment				
Continuity tester	1	15	B	
Current leakage meter	1	15	B	
Digital recording amp meter	1	15	B	
Digital recording volt meter	1	15	B	
Energized insulator tester	1	15	B	
Fault indicators	1	15	A	
Hi-Pot tester	1	15	A	
Megger	1	15	B	
Ohm meter	1	15	B	
Phasing stick (Set)	1	15	A	
Potential indicator	1	15	B	
Rotation meter	1	15	A	
Voltage/amp meter	1	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
Power Tools				
Chain saw	1	15	B	
Cutters	1	15	B	
Drill, hand, ½"	5	3	B	
Portable generator	1	15	B	
Press (Y-35, Y-45)	5	3	B	
Saws	5	3	B	
Tamper	5	3	B	
Specialty Tools and Equipment				
Cable locator / underground fault locator	1	15	A	
Cable stripper	5	3	A	
Collapsible reel	1	15	B	
Core sampling tool	1	15	B	
Dynamometer	1	15	E	
Feed-through device	2	8	A	
Field lashing tool	1	15	B	
Gaff gauge	5	3	B	
Ground rod driver	2	8	B	
Oil sample test kit	1	15	E	
Propane torch	1	15	B	
Pulling equipment	1	15	B	
Reel jacks	2	8	E	
Running grounds	1	15	E	
Sag board	1	15	E	

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
Silicon wiping cloth	15	1	A	
Tool bucket/tool board	1 per vehicle		B	
Powder Actuated Tools				
CAD welding tool	1	15	E	
Powder-actuated connection tool	1	15	B	
Powder-actuated spiking tool	1	15	A	
Powder-actuated splicing tool	1	15	A	
Aerial Work Platforms				
Fibreglass ladders	1	15	B	
Insulated pole platform (diving board)	3	5	B	
Material handling aerial device (MHAD)	1	15	B	
Radial boom derrick with bucket attachment	1	15	B	
Rigging, Hoisting and Lifting Equipment				
Block and tackle	5	3		
Capstan hoist	1	15	B	
Hand line	5	3	B	
Hoists; assorted chain, nylon, cable	5	3	B	
Pike pole	10	2	B	
Pole jack (puller)	1	15	B	
Shackles	15	1	B	
Sling/grips	15	1	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
Wire mesh grip	5	3	B	
Communications Equipment				
Computer	1	15	B	
Fax machine	1	15	B	
Printer	1	15	B	
Telephone	1	15	B	
Two-way radio	1	15	B	

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