

National Occupational Standards: Powerline Technician

Essential Skills contribute to success in apprenticeship and ongoing journey person skills training.

National Occupational Standards for Red Seal trades reference **Essential Skills Profiles** (www.red-seal.ca) describing how the following nine Essential Skills are used on-the-job:



Reading Text



Document Use



Numeracy



Writing



Oral Communication



Working with Others



Thinking Skills



Computer Use



Continuous Learning

Visit www.hrdc-drhc.gc.ca/essentialskills to learn more about Essential Skills.

Occupational Skills A	Interprets occupational documentation.	Interprets drawings, specifications and standards.	Interprets policies, regulations and procedures.	Interprets material and equipment documentation.
	1	1.01	1.02	1.03
	Maintains work-related records.			
	1.04			
	Organizes work.	Assesses and prepares work site.	Controls vehicle and pedestrian traffic.	Identifies powerline hazards.
	2	2.01	2.02	2.03
	Controls powerline hazards.	Controls environmental hazards.	Organizes equipment, tools and personnel.	Organizes materials and supplies.
	2.04	2.05	2.06	2.07
	Develops and maintains schedule.			
	2.08			
Communicates in the workplace.	Communicates with other disciplines and co-workers.	Communicates with customers.	Communicates with apprentices.	
3	3.01	3.02	3.03	
Participates in tailboard meetings.	Communicates using hand signals.	Communicates electronically.		
3.04	3.05	3.06		
Uses and maintains tools and equipment.	Uses personal protective equipment (PPE).	Uses hand tools.	Uses power tools.	
4	4.01	4.02	4.03	
Uses powder-actuated tools.	Uses electrical measuring and testing equipment.	Uses ladders.	Uses climbing gear.	
4.04	4.05	4.06	4.07	
Uses aerial work platforms.	Uses rigging, hoisting and lifting equipment.	Uses live-line tools.	Maintains tools and equipment.	
4.08	4.09	4.10	4.11	
Structures B	Installs poles.	Selects poles.	Frames poles.	Sets poles.
	5	5.01	5.02	5.03
	Installs pole guys and anchors.			
	5.04			
Installs transmission towers.	Installs footings.*	Assembles transmission towers.	Erects transmission towers.	
6	6.01	6.02	6.03	
Installs transmission tower guy wires and anchors.*				
6.04				
Conductor Systems C	Installs overhead conductors.	Strings overhead conductors.	Sags overhead conductors.	Ties-in overhead conductors.
	7	7.01	7.02	7.03
	Splices overhead conductors.			
	7.04			
Installs underground cable.	Places underground cable.	Splices underground cable.	Terminates underground cable.	
8	8.01	8.02	8.03	
Auxiliary Equipment D	Installs lighting systems.	Installs street lights.	Maintains street lights.	
	9	9.01	9.02	
	Installs voltage control equipment.	Installs transformers.	Installs capacitors.	Installs voltage regulators.
	10	10.01	10.02	10.03
	Installs switches.	Installs reactors.*		
	10.04	10.05		
	Installs protection equipment.	Installs reclosers.	Installs fuses.	Installs sectionalizers.
	11	11.01	11.02	11.03
Installs metering equipment.	Installs primary metering.	Installs secondary metering.		
12	12.01	12.02		
Maintenance and Repair E	Maintains transmission and distribution systems.	Inspects distribution and transmission systems.	Maintains poles.	Maintains towers.
	13	13.01	13.02	13.03
	Maintains system components.	Trims trees.		
	13.04	13.05		
	Repairs transmission and distribution systems.	Troubleshoots overhead lines.	Troubleshoots underground lines.	Repairs overhead lines.
	14	14.01	14.02	14.03
	Repairs underground lines.			
14.04				
Applies live-line methods.	Assesses live-line status.	Uses rubber protective equipment.	Uses bare-hand techniques.*	
15	15.01	15.02	15.03	
Uses rubber glove techniques.	Uses stick techniques.			
15.04	15.05			

* = (NOT COMMON CORE)