

Essential Skills

contribute to success in apprenticeship and ongoing journeyman 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



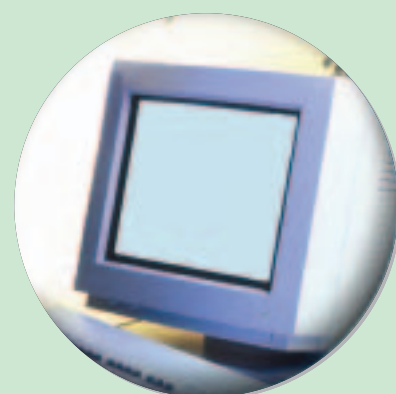
Oral Communication



Working with Others



Thinking Skills



Computer Use



Continuous Learning

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

Occupational Skills	1	1.01	1.02	1.03	1.04
A	Utilizes drawings, codes, standards and service and operating manuals.	Interprets blueprints, drawings and schematics.	Modifies drawings and schematics.	Interprets service and operating manuals, specifications and technical bulletins.	Complies with government codes, standards and regulations.
	Employs tools and equipment.	Uses and services hand tools.	Operates and services portable power tools.	Operates powder-actuated tools.	Operates and services stationary power tools.
	Operates and maintains material handling equipment.	Uses mechanical measuring equipment.	Operates electrical testing and diagnostic tools.	Operates computer systems.	Uses access equipment.
B	Demonstrates work practices and procedures.	Conducts work area inspection.	Installs fasteners, fittings and connectors.	Performs lock-out and tagging.	Installs conduit.
	Installs raceways, cable trays, busways and associated components.	Cleans and lubricates parts and components.	Troubleshoots common electrical devices associated with pneumatic/hydraulic/ mechanical systems.	Services mechanical components of electrical equipment.	Completes work-related documentation.
	Installs and maintains illumination systems.	Inspects illumination systems.	Replaces illumination systems.	Troubleshoots illumination systems.	Repairs illumination systems.
C	Maintains single and three-phase AC systems.	Inspects single and three-phase AC systems.	Replaces single and three-phase AC systems.	Troubleshoots single and three-phase AC systems.	Repairs single and three-phase AC systems.
	Maintains DC systems.	Inspects DC systems.	Replaces DC systems.	Troubleshoots DC systems.	Repairs DC systems.
	Maintains grounding, bonding and cathodic protection systems.	Inspects grounding, bonding and cathodic protection systems.	Replaces grounding, bonding and cathodic protection systems.	Troubleshoots grounding, bonding and cathodic protection systems.	Repairs grounding, bonding and cathodic protection systems.
D	Maintains high voltage power distribution systems.	Inspects high voltage power systems.	Replaces high voltage power systems.	Troubleshoots high voltage power systems.	Repairs high voltage power systems.
	Maintains low voltage power distribution systems.	Inspects low voltage power systems.	Installs low voltage power systems.	Troubleshoots energized and non-energized low voltage power systems.	Repairs low voltage power systems.
	Maintains direct current power systems.	Inspects direct current power systems.	Replaces direct current power systems.	Troubleshoots direct current power systems.	Repairs direct current power systems.
E	Maintains rotating equipment and associated controls.	Inspects rotating equipment and associated controls.	Replaces rotating equipment and associated controls.	Troubleshoots rotating equipment and associated controls.	Repairs rotating equipment and associated controls.
	Maintains drives and associated controls.	Inspects drives and associated controls.	Replaces drives and associated controls.	Troubleshoots drives and associated controls.	Repairs drives and associated controls.
	Maintains uninterruptible power supply systems (UPS).	Inspects uninterruptible power supply systems (UPS).	Replaces uninterruptible power supply systems (UPS).	Troubleshoots uninterruptible power supply systems (UPS).	Repairs uninterruptible power supply systems (UPS).
F	Maintains standby power generating systems.	Inspects standby power generating systems.	Replaces standby power generating systems.	Troubleshoots standby power generating systems.	Repairs standby power generating systems.
	Maintains alarm systems.	Inspects alarm systems.	Replaces alarm systems.	Troubleshoots alarm systems.	Repairs alarm systems.
	Maintains paging systems.	Inspects paging systems.	Replaces paging systems.	Troubleshoots paging systems.	Repairs paging systems.
G	Maintains protection devices.	Inspects protection devices.	Replaces protection devices.	Troubleshoots protection devices.	Repairs protection devices.
	Maintains input/output field devices.	Inspects input/output field devices.	Replaces input/output field devices.	Troubleshoots input/output field devices.	Repairs input/output devices.
	Maintains programmable logic controllers (PLC).	Inspects programmable logic controllers.	Replaces programmable logic controllers.	Troubleshoots programmable logic controllers.	Repairs programmable logic controllers.
H	Configures programmable logic controllers.	Optimizes programmable logic controllers.			
	Maintains distributed control and SCADA systems.	Inspects distributed control and SCADA systems.	Replaces distributed control and SCADA systems.	Troubleshoots distributed control and SCADA systems.	Repairs distributed control and SCADA systems.
	Maintains electrical components of heating systems.	Inspects electrical components of heating systems.	Replaces electrical components of heating systems.	Troubleshoots electrical components of heating systems.	Repairs electrical components of heating systems.
	Maintains electrical components of cooling systems.	Inspects electrical components of cooling systems.	Troubleshoots electrical components of cooling systems.	Repairs electrical components of cooling systems.	Services electrical components of cooling systems.
	Maintains building automation systems.	Inspects building automation systems.	Replaces building automation systems.	Troubleshoots building automation systems.	Repairs building automation systems.
	Maintains environmental regulating systems.	Inspects environmental regulating systems.	Replaces environmental regulating systems.	Troubleshoots environmental regulating systems.	Repairs environmental regulating systems.