

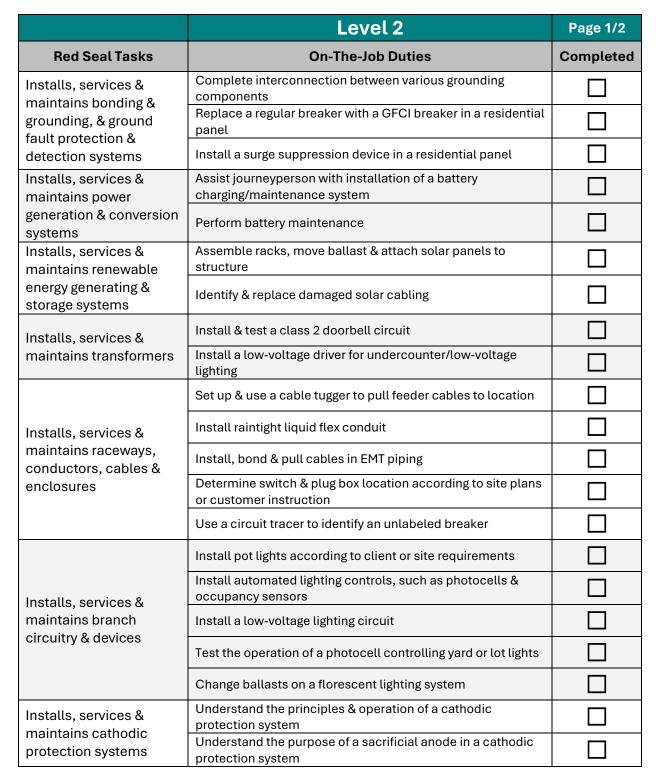




	Level 1	Page 2/2
Red Seal Tasks	On-The-Job Duties	Completed
Installs, services & maintains consumer/supply services & metering equipment	Assist journeyperson with installation of residential service	
	Install & connect a ground rod or ground plate for a residential service	
Installs, services & maintains power distribution equipment	Interpret single line diagrams to identify possible sources of energy & isolation points	
Installs, services & maintains protection devices	Install & terminate a disconnect for system isolation	
	Install & test a GFCI plug to protect downstream loads	
	Install & terminate breakers in a de-energized panel with the assistance of a journeyperson	
	Understand the applications & limitations of various conductors/cables	
Installs, services &	Install metallic & non-metallic conduit raceways	
maintains raceways, conductors, cables and enclosures	Install & bond ladder cable tray as per manufacturer specifications	
	Install non-metallic & metallic device boxes in a wood framed structure as per CEC requirements	
	Expose & repair damaged underground PVC conduit	
Installs, services & maintains branch circuitry & devices	Assemble & install various light fixtures	
	Install & terminate a 3-way switch	
	Install a sensor to control a light such as a photocell or a timer	
	Prepare the base of a pole light for installation	
	Verify receptacle voltage & polarity using a multimeter	
Installs, services & maintains communication systems	Terminate CAT-rated cables as per manufacturer's specification	
	Install data/phone jacks using a punch down tool	
	Discuss the principles & limitations of nurse call system with the journeyperson	

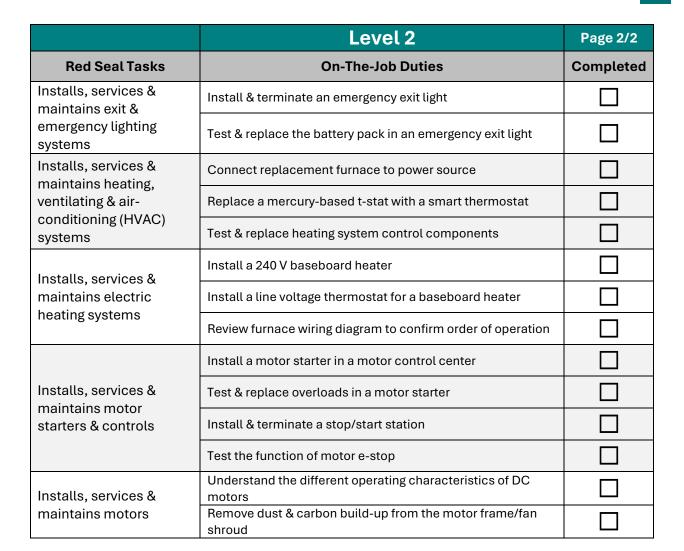






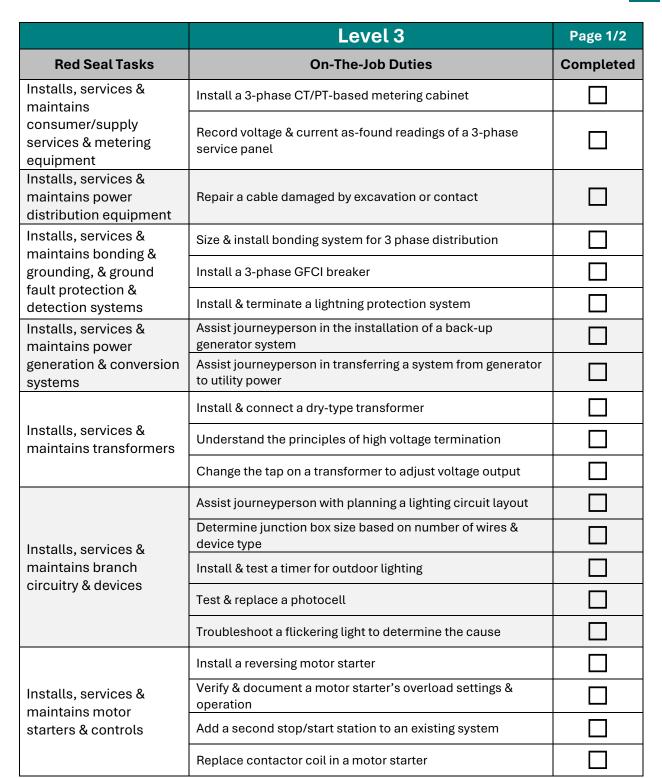


















	Level 3	Page 2/2
Red Seal Tasks	On-The-Job Duties	Completed
Installs, services & maintains drives	Assist journeyperson with the installation of an AC drive	
	Verify drive inputs & confirm expected output voltage of an AC drive	
	Replace an undersized DC drive control	
	Perform DC drive preventive maintenance	
Installs, services & maintains motors	Modify the connection of an AC motor from Wye to Delta	
	Replace a thermal overload on a single-phase motor	
	Bump a 3-phase motor to verify rotation	
	Verify motor condition by comparing the resistance of each winding using a multimeter	
	Change the rotation of a DC motor	
	Replace damaged or worn DC motor components	



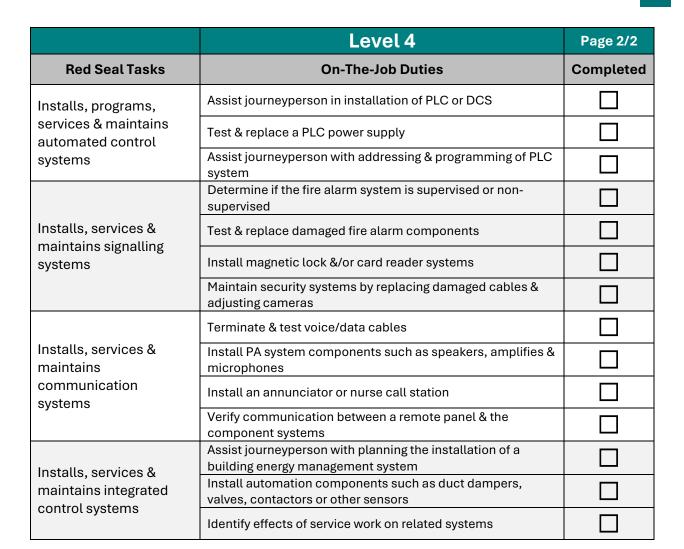




	Level 4	Page 1/2
Red Seal Tasks	On-The-Job Duties	Completed
Uses communication & mentoring techniques	Demonstrate a procedure for a coworker	
Installs, services & maintains power conditioning, uninterruptible power supply (UPS) & surge suppression systems Installs, services & maintains bonding & grounding, & ground fault protection & detection systems	Install & terminate a UPS bank	
	Verify the de-energized state of capacitor bank prior to service	
	Verify resistance of ground grid is within site specifications	
Installs, services & maintains renewable	Install a DC to AC inverter/converter	
energy generating & storage systems	Verify de-energization of an inverter prior to service	
Installs, services & maintains high-voltage systems	Install a stress cone	
	Verify cable insulation integrity prior to installation	
	Verify zero energy state of equipment prior to commencing work	
Installs, services & maintains branch circuitry & devices	Understand the dangers & limitations of airport runway lights	
	Install a timer-relay to control a lighting/signal circuit	
Installs, services & maintains motors	Verify that a motor's characteristics match site & system requirements	
	Replace a defective capacitor on a capacitor start motor	
	Choose connection type based upon system load requirements	
	Identify the cause of increasing motor temperature during normal operation	
	Install deadman switch for a bench grinder or hydraulic press	
	Performs thermal imaging of motor & connections to identify possible problems	









# **Construction Electrician On-the-Job Checklist**



#### Information Regarding the Checklist

Saskatchewan Apprenticeship and Trade Certification Commission's (SATCCs) On-The-Job Checklist provides a complete list of trade-specific Red Seal tasks for apprentices to complete under the supervision of a journeyperson. This work should be completed prior to attending the technical training level under which the duties are listed (e.g. Level 1 completed prior to attending Level 1 technical training).

Completing this checklist will ensure that apprentices are exposed to the full scope of a particular Red Seal trade throughout their apprenticeship program. It will also help prepare apprentices for each level of technical training by performing work on-the-job relating specifically to topics covered later on. The trade-specific tasks listed have been reviewed by certified journeypersons in Saskatchewan for their accuracy and have been set to an appropriate skill level.

An apprentice spends approximately 85% of their apprenticeship term training on-the-job. It is the both the apprentice and the employer's or journeyperson's responsibility to supervise an apprentice's practical skills development during their program.

To promote transparency and consistency, this document aligns with the 2021 Construction Electrician Red Seal Occupational Standard (Employment and Social Development Canada).

A complete version of the Occupational Standard can be found at www.red-seal.ca

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