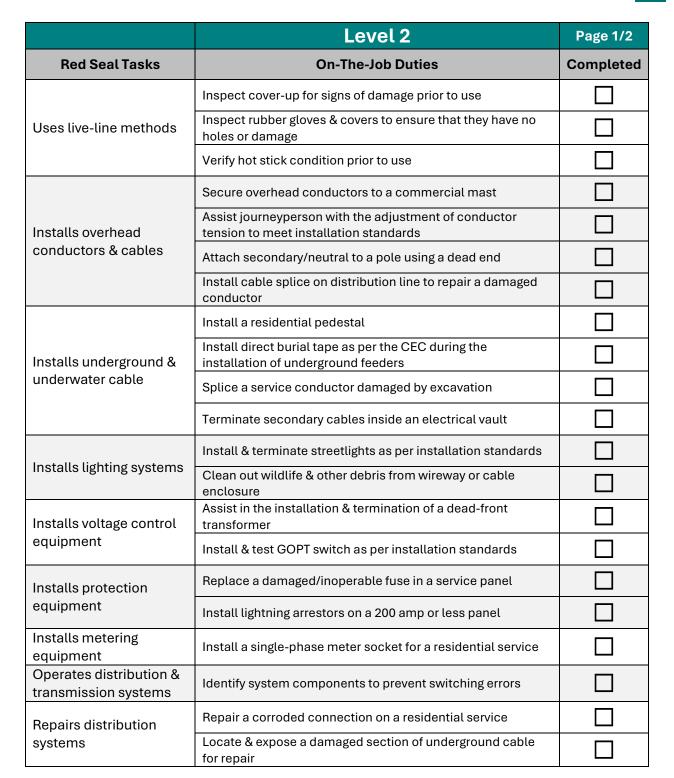




Powerline Technician On-the-Job Checklist









| | Level 2 | Page 2/2 |
|---|---|-----------|
| Red Seal Tasks | On-The-Job Duties | Completed |
| Maintains distribution & transmission systems | Inspect poles for damage & decay | |
| | Perform a single-phase transformer load check | |
| | Cut back branches in danger of contacting lines | |
| Repairs transmission systems | Replace wooden pole crossarms | |
| | Megger underground cable to verify cable insulation quality | |

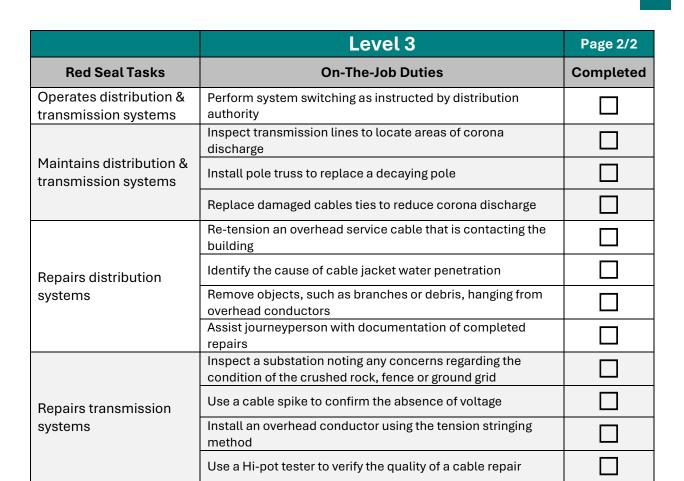




| | Level 3 | Page 1/2 |
|---|---|-----------|
| Red Seal Tasks | On-The-Job Duties | Completed |
| Uses live-line methods | Install a cover-up on live lines to prevent accidental contact | |
| | Clean & store rubber gloves & covers according to manufacturer's recommendations | |
| | Select a hot stick based upon job requirements | |
| Installs overhead conductors & cables | Attach cable pulling equipment to the conductor | |
| | Use a sag stick or other methods to adjust line sag as per installation standards | |
| | Secure conductors to insulators using methods specified in the installation standards | |
| | Select compression fitting to splice overhead cables | |
| Installs underground & underwater cable | Install PVC conduit & ground conductor for an underground vault | |
| | Verify worker accessible trench is sloped back a minimum of 1 meter per 4 meters of depth | |
| | Use a line locator to locate an underground cable | |
| | Install an elbow surge protector | |
| Installs lighting systems | Hoist streetlight into place, level & install mounting bolts | |
| | Replace streetlight bulbs & components | |
| Installs voltage control equipment | Assist journeyperson with installation of a 3-phase 600v pole type transformer | |
| | Assist journeyperson with installation of single-phase step voltage regulators | |
| | Troubleshoot & repair/replace a non-operational or damaged knife switch | |
| Installs protection equipment | Install a cutout according to installation standards | |
| | Manually activate a sectionalizer for isolation purposes | |
| | Install & test specialized fuses | |
| Installs metering equipment | Install a current transformer to measure line current | |

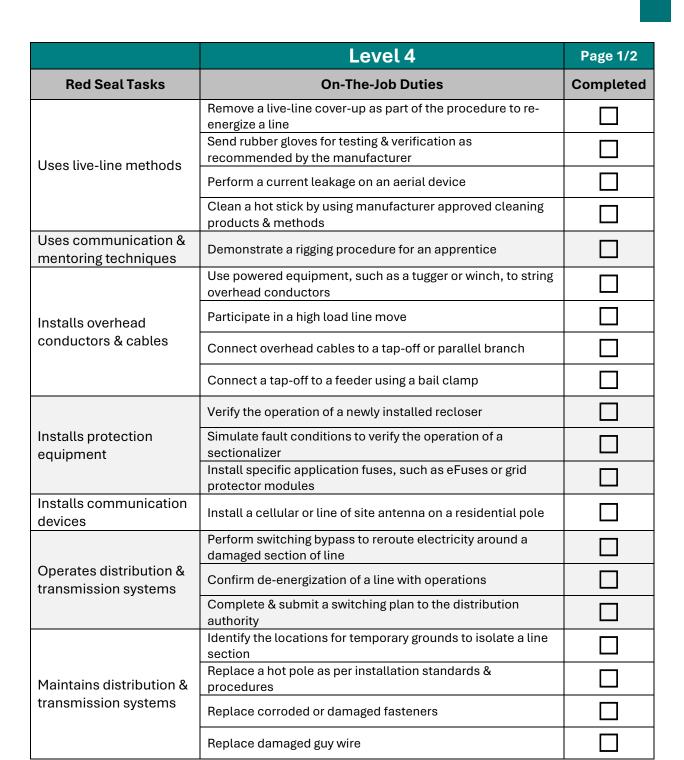


















| | Level 4 | Page 2/2 |
|------------------------------------|---|-----------|
| Red Seal Tasks | On-The-Job Duties | Completed |
| Installs voltage control equipment | De-energize a capacitor by shorting out the terminals | |
| | Install & terminate an on-load tap changer | |
| | Understand the limitations & the installation requirements for a reactor | |
| Repairs distribution systems | Identify why a recloser is not automatically restoring the circuit | |
| | Identify the location of a cable fault using test equipment, such as a thumper or a TDR device | |
| | Replace a corroded or damaged anchor to maintain line tension | |
| | Replace damaged or failed cable terminations | |
| Repairs transmission systems | Call the outage center to clear the call from the location of the trouble | |
| | Determine why & the procedure for repair for feeder connections that are pulling away from the connection point | |
| | Replace the internals on a solid blade disconnect switch | |
| | Replace a failed or damaged stress cone | |



Powerline Technician 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 tradespecific 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 2019 Powerline Technician 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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