

CONSTRUCTION ELECTRICIAN INFORMATION SHEET 2022

Employers, journeypersons and instructors play a key role in the success of apprenticeship in Newfoundland and Labrador. By working collaboratively with government, stakeholders support the apprenticeship system in the development of a highly skilled workforce.

To receive a Red Seal endorsement, apprentices must pass the Red Seal examination. In 2022, Newfoundland and Labrador's Red Seal exam pass rate for the Construction Electrician trade was 50%. This is below the 2022 national average of 52%. As supervising journeypersons and instructors, you are integral in helping train and prepare apprentices to write the Red Seal exam. Apprentices should be exposed to, have the ability to practice, and be able to explain how to complete all skills in the logbook; this will assist them in being successful in their Red Seal exam.

Given the broad scope of the trade, it can be difficult to know where to focus to prepare apprentices. To help inform your training plan with the apprentice, the Apprenticeship and Trades Certification Division (ATCD) has identified a list of five lower performing tasks demonstrated by Newfoundland and Labrador apprentices on the Red Seal exam for your trade*. We encourage you to review the list below with apprentices. Details on these tasks can be found in the national occupational standard for your trade – the Red Seal Occupational Standard (RSOS): [Red Seal Occupational Standard - Construction Electrician](#)

Task/Sub-Task	Description	Number of Questions on RS Exam (out of 100)	RSOS Page Number
Task B-8	Installs, services and maintains protection devices.	5 questions	Pg. 54
B-8.01	Installs overcurrent protection devices.		
B-8.02	Installs ground fault, arc fault and surge protection devices.		
B-8.03	Performs servicing and maintenance of ground fault, arc fault and protection devices.		
Task B-11	Installs, services and maintains bonding and grounding protection systems.	5 questions	Pg. 69
B-11.01	Installs grounding and bonding systems.		
B-11.02	Installs ground fault systems.		
B-11.03	Installs lightning protection systems.		
B-11.04	Performs servicing and maintenance of bonding and grounding systems.		
Task C-19	Installs, services and maintains electric heating systems.	5 questions	Pg. 131
C-19.01	Installs electric heating systems.		
C-19.02	Installs electric heating system controls.		
C-19.03	Performs servicing and maintenance of electric heating systems and controls.		

Task/Sub-Task	Description	Number of Questions on RS Exam (out of 100)	RSOS Page Number
Task D-22	Installs, services and maintains motor starters and controls.	8 questions	Pg. 145
D-22.01	Installs motor starters.		
D-22.02	Performs servicing and maintenance of motor starters.		
D-22.03	Installs motor controls.		
D-22.04	Performs servicing and maintenance of motor controls.		
Task D-24	Installs, services and maintains motors.	6 questions	Pg. 160
D-24.01	Installs single-phase motors.		
D-24.02	Performs servicing and maintenance of single-phase motors.		
D-24.03	Installs three-phase motors.		
D-24.04	Performs servicing and maintenance of three-phase motors.		
D-24.05	Installs DC motors.		
D-24.06	Performs servicing and maintenance of DC motors.		

**The information above represents Red Seal exam data from May 2020 – May 2022.*

For additional resources to assist apprentices (e.g., Self-Assessment Guide, Red Seal Practice Questions, etc.), please visit the **Trade Profile** section on the ATCD website: www.gov.nl.ca/atcd/designated-trades/trade-profiles/

ATCD would like to thank you for your contribution towards apprenticeship training and investing in the future of skilled trades in Newfoundland and Labrador.