

# INDUSTRIAL ELECTRICIAN INFORMATION SHEET 2023

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 Industrial Electrician trade was 56 per cent. This is above the 2022 national average of 47 per cent. 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 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 - Industrial Electrician](#)

Task/Sub-Task	Description	Number of Questions on RS Exam (out of 100)	RSOS Page Number
<b>Task B-7</b>	<b>Installs and maintains consumer/supply services and metering equipment.</b>	<b>3 questions</b>	<b>Pg. 55</b>
B-7.01	Installs single-phase consumer/supply services and metering equipment.		
B-7.02	Maintains single-phase consumer/supply services and metering equipment.		
B-7.03	Installs three-phase consumer/supply services and metering equipment.		
B-7.04	Maintains three-phase consumer/supply services and metering equipment.		
<b>Task B-10</b>	<b>Installs and maintains power conditioning systems.</b>	<b>2 questions</b>	<b>Pg. 80</b>
B-10.01	Installs power conditioning systems.		
B-10.02	Maintains power conditioning systems.		
<b>Task B-15</b>	<b>Installs and maintains transformers.</b>	<b>3 questions</b>	<b>Pg. 112</b>
B-15.01	Installs extra-low voltage transformers.		
B-15.02	Maintains extra-low voltage transformers.		
B-15.03	Installs low voltage single-phase transformers.		

Task/Sub-Task	Description	Number of Questions on RS Exam (out of 100)	RSOS Page Number
B-15.04	Maintains low voltage single-phase transformers.		
B-15.05	Installs low voltage three-phase transformers.		
B-15.06	Maintains low voltage three-phase transformers.		
B-15.07	Installs high voltage transformers.		
B-15.08	Maintains high voltage transformers.		
<b>Task C-19</b>	<b>Installs and maintains electric heating systems and controls.</b>	<b>3 questions</b>	<b>Pg. 153</b>
C-19.01	Installs electric heating systems and controls.		
C-19.02	Maintains electric heating systems and controls.		
<b>Task E-26</b>	<b>Installs and maintains signalling systems.</b>	<b>3 questions</b>	<b>Pg. 198</b>
E-26.01	Installs fire alarm systems.		
E-26.02	Maintains fire alarm systems.		
E-26.03	Installs security and surveillance systems.		
E-26.04	Maintains security and surveillance systems.		
<b>Task E-28</b>	<b>Installs and maintains building automation systems.</b>	<b>3 questions</b>	<b>Pg. 214</b>
E-28.01	Installs building automation systems.		
E-28.02	Maintains building automation systems.		

*\*The information above represents the last three years where Red Seal exam data is available (May 2020 – May 2023).*

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/](http://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.