

REFRIGERATION AND AIR CONDITIONING MECHANIC 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 Refrigeration and Air Conditioning Mechanic trade was 53 per cent. This is above the 2022 national average of 50 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 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 - Refrigeration and Air Conditioning Mechanic](#)

Task/Sub-Task	Description	Number of Questions on RS Exam (out of 125)	RSOS Page Number
Task A-1	Performs safety-related functions.	3 questions	Pg. 20
A-1.01	Maintains safe work environment.		
A-1.02	Performs lock-out, tag-out and isolation procedures.		
A-1.03	Uses personal protective equipment (PPE) and safety equipment.		
Task A-3	Organizes work.	3 questions	Pg. 37
A-3.01	Interprets drawings and specifications.		
A-3.02	Uses documentation and reference material.		
A-3.03	Plans job tasks and procedures.		
Task C-8	Plans installation of control systems.	7 questions	Pg. 65
C-8.01	Verifies control system parameters and requirements.		
C-8.02	Selects control system components and accessories.		
C-8.03	Determines placement of control system components and accessories.		
C-8.04	Performs control system material take-off.		
Task D-9	Installs HVAC/R systems.	16 questions	Pg. 69

Task/Sub-Task	Description	Number of Questions on RS Exam (out of 125)	RSOS Page Number
D-9.01	Confirms system layout.		
D-9.02	Assembles HVAC/R equipment, components and accessories.		
D-9.03	Places HVAC/R equipment, components and accessories.		
D-9.04	Installs fasteners, brackets and hangers.		
D-9.05	Installs HVAC/R piping and tubing.		
D-9.06	Applies HVAC/R holding charge.		
Task E-12	Commissions control systems.	8 questions	Pg. 88
E-12.01	Performs start-up checks for control systems.		
E-12.02	Verifies/sets operating parameters.		

**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/

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