

MACHINIST 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. 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 - Machinist](#)

Task/Sub-Task	Description	Number of Questions on RS Exam (out of 135)	RSOS Page Number
Task A-2	Organizes work.	3 questions	Pg. 25
A-2.01	Interprets documentation.		
A-2.02	Plans sequence of operations.		
Task C-8	Sets up power saws.	5 questions	Pg. 66
C-8.01	Selects power saw types.		
C-8.02	Selects saw blades.		
C-8.03	Installs saw blades.		
C-8.04	Selects power saw speeds and feeds.		
C-8.05	Makes power saw adjustments.		
C-8.06	Sets up workpiece on power saw.		
Task C-9	Operates power saws.	3 questions	Pg. 72
C-9.01	Saws straight and angle cuts.		
C-9.02	Cuts irregular shapes.		
Task E-13	Operates conventional lathes.	14 questions	Pg. 93
E-13.01	Faces surfaces using a conventional lathe.		
E-13.02	Turns external surfaces using a conventional lathe.		
E-13.03	Drills using a conventional lathe.		

Task/Sub-Task	Description	Number of Questions on RS Exam (out of 135)	RSOS Page Number
E-13.04	Bores holes using a conventional lathe.		
E-13.05	Reams holes using a conventional lathe.		
E-13.06	Turns tapers using a conventional lathe.		
E-13.07	Knurls using a conventional lathe.		
E-13.08	Cuts grooves using a conventional lathe.		
E-13.09	Cuts threads using a conventional lathe.		
E-13.10	Parts off workpiece using a conventional lathe.		
Task F-14	Sets up conventional milling machines.	15 questions	Pg. 107
F-14.01	Selects conventional milling machine types.		
F-14.02	Plans operation of milling machines.		
F-14.03	Sets up work holding devices for conventional milling machines.		
F-14.04	Sets up tooling for conventional milling machines.		
F-14.05	Sets up milling accessories.		
F-14.06	Sets up workpiece on a conventional milling machine.		
F-14.07	Selects conventional milling machine speeds and feeds.		
Task G-16	Sets up precision grinding machines.	6 questions	Pg. 129
G-16.01	Selects precision grinding machine types.		
G-16.02	Plans operation of grinding machines.		
G-16.03	Sets up work holding devices for precision grinding machines.		
G-16.04	Mounts grinding wheel.		
G-16.05	Sets up grinding accessories.		
G-16.06	Sets up workpiece on precision grinding machines.		
G-16.07	Selects precision grinding machine speeds and feeds.		

**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.