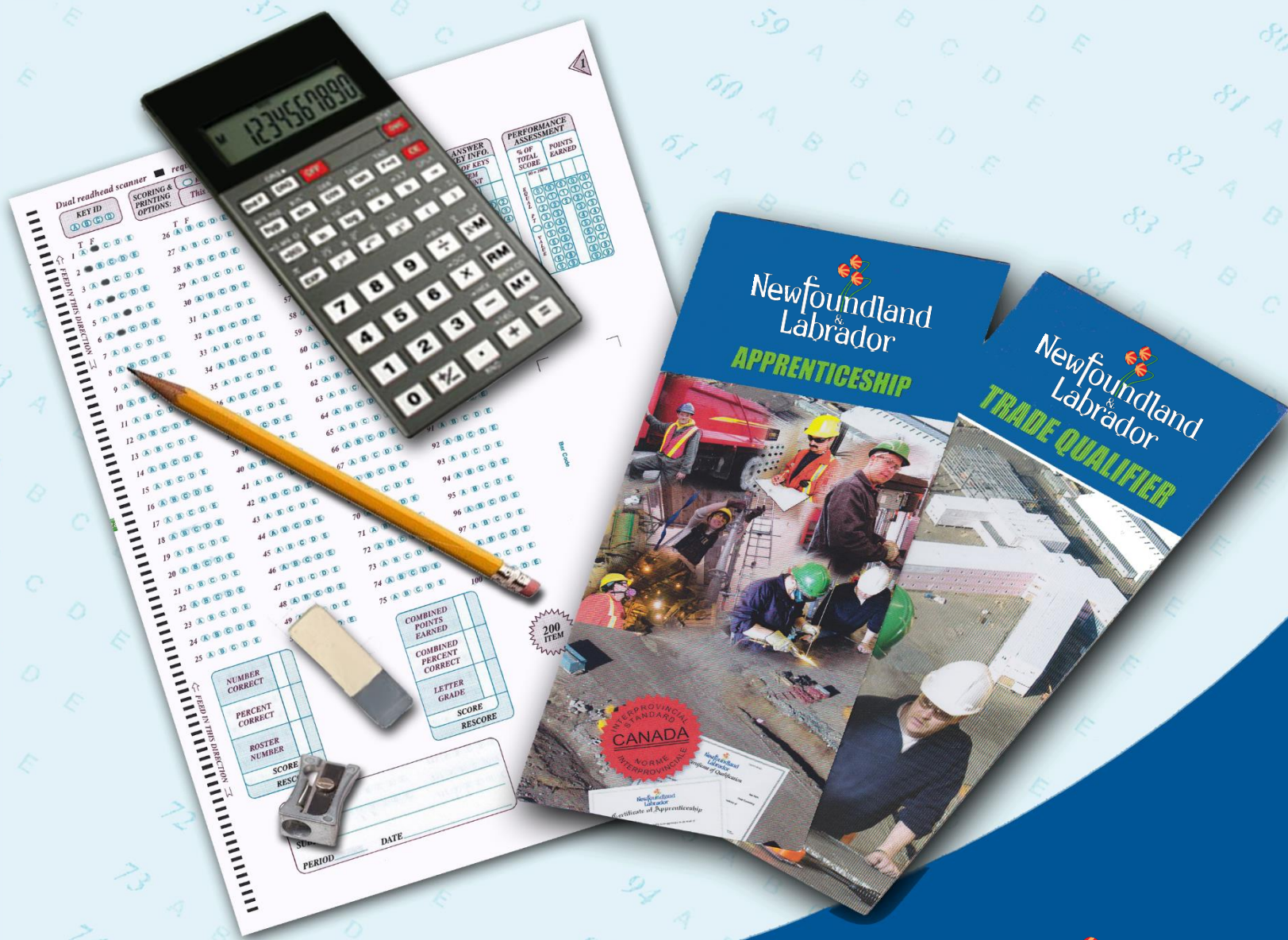


# APPRENTICESHIP & CERTIFICATION

## Study Guide Plumber



# **Apprenticeship and Certification**

## **Study Guide**

# **Plumber**

**(Based on Red Seal Occupational Standard – RSOS 2023)**

Government of Newfoundland and Labrador Department  
of Immigration, Population Growth and Skills

**Version 13**

Revised  
February 2024

# Table of Contents

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Introduction .....	3
Exam Process .....	4
Before the Exam.....	4
During the Exam.....	4
After the Exam .....	4
Exam Format .....	5
Exam Content.....	9
Understanding the Red Seal Occupational Standard (RSOS).....	9
Exam Breakdown .....	11
RSOS Sub-tasks.....	12
Task Profile Checklist .....	13
Create a Study Plan .....	18
Resources - Websites.....	21
Resources – Book List.....	22
Conclusion.....	23

## Appendices

Appendix A: Regional Offices .....	24
Appendix B: Calculator Use .....	25
Appendix C: Answer Sheet Example .....	26

# Introduction

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This Study Guide has been developed by the Newfoundland and Labrador Department of Immigration, Population Growth and Skills, Apprenticeship and Trades Certification Division, to assist apprentices and trade qualifiers as they prepare to write the Red Seal Exam. Red Seal Exams are available for all Red Seal trades. For a list of Red Seal trades please refer to the Department of Immigration, Population Growth and Skills website:

<https://www.gov.nl.ca/atcd/designated-trades/list-of-designated-trades/>

## Some of the specific goals of this guide are:

- ⇒ to help you understand the skills and knowledge that might be covered on the exam
- ⇒ to help you identify your strengths and weaknesses
- ⇒ to provide organization and structure for a course of study
- ⇒ to provide a list of resources to help you with your study plan
- ⇒ to support and supplement the teaching and learning process

This study guide outlines the theoretical portion of the program. The intent is not to replace technical training provided under the guidance of instructors. Rather, it is a tool to be used in conjunction with formal training.



# Exam Process

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## Before the Exam

You must contact the nearest Apprenticeship and Trades Certification Divisional office to make request to write the Red Seal exam (*See Appendix A for a list of regional offices*). Upon approval, the Apprenticeship Program Officer (APO) will notify you of your eligibility to write the exam, and provide you with scheduling information. If you require special accommodations due to a disability or language barrier, please contact your regional office for information on applying for this service.

## During the Exam

### You must bring:

- personal identification such as a photo or signature ID or valid Newfoundland and Labrador driver's license
- your notification letter

### The following will be provided:

- National Plumbing Code of Canada
- a calculator (*see Appendix B for calculator information*)
- all other items required such as pencils, scrap paper, etc.

### Important Note:

Personal cell phones, calculators, or other electronic equipment are NOT allowed into the exam room. If you do bring them, they will be stored away and returned to you when you have completed the exam.

## After the Exam

Results will be mailed to you approximately seven to ten days after completion of the exam. All necessary instructions and information will be provided in the results letter.

The percentage mark you obtained will be provided. You will also be given a section by section breakdown, showing how many questions were in each section, as well as the number of questions in each section you completed successfully.

If you are successful in obtaining a 70% or more on your exam, you will be issued a Newfoundland and Labrador Certificate of Qualification with a Red Seal endorsement.



## Exam Format

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All Red Seal exams are written in multiple-choice format. Each exam has between 100 and 150 questions. A multiple choice question consists of a stem (a complete question) followed by four options (A, B, C, D). The stem contains all the information necessary to answer the question. The options consist of the one correct answer and three “distracters.” Distracters are incorrect. (See *Appendix C for a sample answer sheet*).

Red Seal exams contain three types of questions:

### Level 1 Knowledge and Recall

Questions at this level test your ability to recall and understand definitions, facts, and principles.

*(Method of Study: Index Cards)*

### Level 2 Procedural and Application

Questions at this level test your ability to apply your knowledge of procedures to a new situation.

*(Method of Study: Practice/You Tube – Math; Post-it-note method – Procedural)*

### Level 3 Critical Thinking

Questions at this level test your ability to interpret data, solve problems and arrive at valid conclusions.

*(Method of Study: Practice, Practice, Practice; Bristol board for formulas – Know when to use the applicable formula, this is key)*

#### Level 1 Examples:

1. What does the term “common piping” mean?

- A. Most common sized pipe used in the system
- B. Most frequently used pipe in the zone
- C. Pipe common to both circuits
- D. Standard pipe sizes



2. Which type of trap is required when installing a standard close-coupled WC?

- A. Integral.
- B. Drum.
- C. Indirect.
- D. Removable.



3. Under atmospheric condition at sea level what is the boiling point of water?

- A. 110dC 220dF
- B. 100dC 212dF
- C. 0dC 32dF
- D. 4dC 39.2dF



### Level 2 Examples:

1. When checking cast iron pipe or fitting for cracks, what should you do?

- A. Examine it visually only
- B. Tap the material sharply with a 4-pound hammer
- C. Tap the spigot end sharply against the hub
- D. Examine it visually and tap it lightly with a hammer



2. When installing water service piping in which order are the valves, starting from the main to inside of the building?

- A. curb stop, stop valve, corporation stop
- B. corporation stop, stop valve, curb stop
- C. stop valve, corporation stop, curb stop
- D. corporation stop, curb stop, stop valve



3. What is the superficial area, (in square feet) of the side and ends of a cylinder 6' long 4' diameter?

- A. 62.80 sq ft
- B. 50.24 sq ft
- C. 100.48 sq ft
- D. 12.56 sq ft



### Level 3 Examples:

1. What is the maximum number of fixture units that can be drained to a 4 inch soil stack in a two storey building?

- A. 60 F.U.
- B. 90 F.U.
- C. 240 F.U.
- D. 540 F.U.



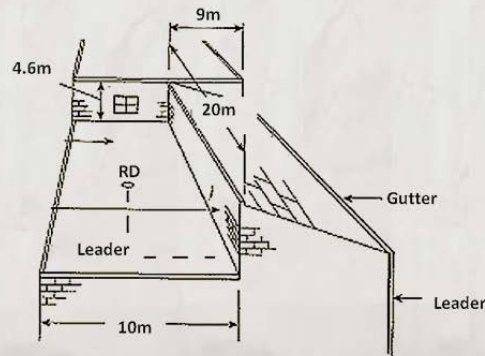
2. Two back-to-back water closets are roughed-in at 254 mm (10 in.) from the finished walls. If the partition is 125 mm (5 in.) hollow tile and the wall finish is 19 mm (3/4 in.) plaster, what is the c-c distance of the sleeves.

- A. 335 mm / 13 1/4 in.
- B. 652 mm / 25 3/4 in.
- C. 671 mm / 26 1/2 in.
- D. 698 mm / 27 1/2 in.





3. From the drawing, what size of circular leader would be required for roof drain?  
The local rainfall intensity is 30 mm.



- A. 2.
- B. 4.
- C. 6.
- D. 8.



Source of questions:

<http://www.red-seal.ca/s.1mpl.2.2x.1mQ.5.2st.3.4ns-eng.html?tid=181>

## Exam Content

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### Understanding the *Red Seal Occupational Standard (RSOS)*

The Red Seal model has historically been based on the development of the National Occupational Analysis (NOA) which supports the development of multiple-choice format examinations.

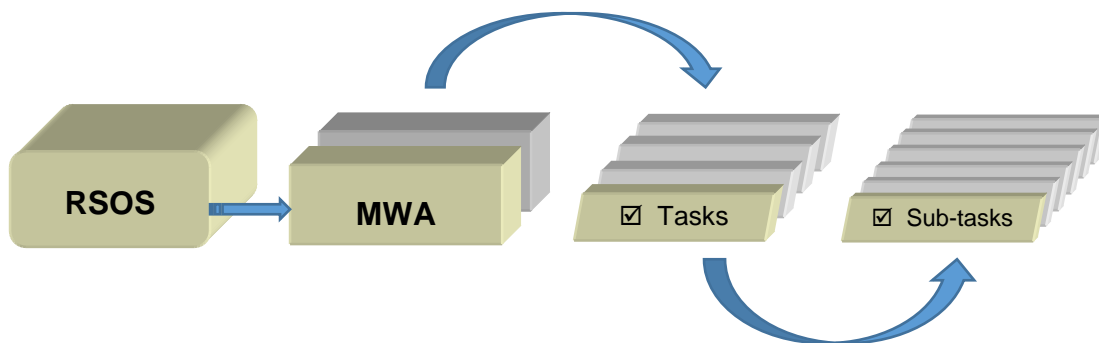
The RSOS was introduced in 2015 and is now taking the place of the NOA. Each RSOS or NOA sets the standard for a Red Seal trade. The Red Seal Examination is based on the Red Seal Standard.

The new standards provide greater consistency in learning resources and allow for increased industry involvement in the development of these standards. This new model places increases emphasis on apprenticeship training and assessing skills with industry learning objectives, outcomes and performance criteria.

The RSOS for each trade describes the tasks and sub-tasks; skills and knowledge requirements; summary of essential skills; safety information; trends affecting the trade; technical terms; names of tools and equipment; acronyms; learning objectives and outcomes; industry expected performance and essential skills related to each sub-task.

The RSOS is an excellent tool to use as you study for the Red Seal exam. RSOSs can be found at <http://www.red-seal.ca/resources/n.4.1-eng.html>

RSOS material is organized into the following categories: **MWA** (*Major Working Activity*). The MWAs are further broken down into **TASKS** (*describes activities within an MWA*) and **SUB-TASKS** (*describe activities within a task – This is what the exam is based on*).



The NOA will continue to be used as the occupational standard for trades that do not yet have an RSOS developed.

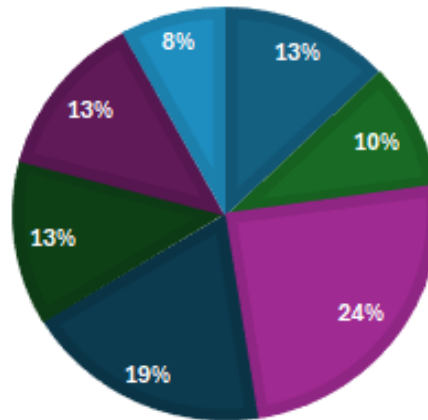
## RSOS Pie Chart

The RSOS Pie Chart presents the MWA percentages in the form of a pie chart which tells you the approximate number of questions from each MWA. For example, 13% of the questions on the **Plumber** Exam will be based on **MWA A**.

### PLUMBER

#### SECTION/MWA

■ A ■ B ■ C ■ D ■ E ■ F ■ G



MWA Titles			
<b>MWA A</b>	Performs Common Occupational Skills	<b>MWA E</b>	Installs, Tests and Services Fixtures, Appliances , and Water Treatment Systems
<b>MWA B</b>	Prepares and Assembles Tube, Tubing, and Pipe	<b>MWA F</b>	Installs, Tests and Services Low Pressure Steam and Hydronic Systems
<b>MWA C</b>	Installs, Tests and Services Sewers, Sewage Treatment Systems and Drainage, Waste, and Vent (DWV) Systems	<b>MWA G</b>	Installs, Tests and Services Specialized Systems
<b>MWA D</b>	Installs, Tests and Services Water Service and Distribution		

## Exam Breakdown

The **Plumber** exam currently has 125 questions. The following table shows a breakdown of the approximate number of questions that come from each RSOS MWA. Please note that the number of questions can change at any time. When you are ready to write your exam you may contact your regional office to verify the number of questions (*see Appendix A for phone numbers*).

		# of Questions
<b>MWA A</b>	<b>Performs Common Occupational Skills</b>	<b>16</b>
<b>Task 1</b>	Performs safety-related functions	<b>3</b>
<b>Task 2</b>	Uses and maintains tools and equipment	<b>4</b>
<b>Task 3</b>	Organizes work	<b>3</b>
<b>Task 4</b>	Performs routine trade activities	<b>5</b>
<b>Task 5</b>	Uses communication and mentoring techniques	<b>1</b>
<b>MWA B</b>	<b>Prepares and Assembles Tube, Tubing, and Pipe</b>	<b>13</b>
<b>Task 6</b>	Prepares tube, tubing, and pipe	<b>6</b>
<b>Task 7</b>	Joins tube, tubing, and pipe	<b>7</b>
<b>MWA C</b>	<b>Installs, Tests and Services Sewers, Sewage Treatment Systems and Drainage, Waste, and Vent (DWV) Systems</b>	<b>31</b>
<b>Task 8</b>	Installs, tests and services sewers	<b>6</b>
<b>Task 9</b>	Installs, tests and services sewage treatment systems	<b>5</b>
<b>Task 10</b>	Installs, tests and services interior drainage, waste, and vent (DWV) systems	<b>20</b>
<b>MWA D</b>	<b>Installs, Tests and Services Water Service and Distribution</b>	<b>23</b>
<b>Task 11</b>	Installs, tests and services water services	<b>5</b>
<b>Task 12</b>	Installs, tests and services potable water distribution systems	<b>12</b>
<b>Task 13</b>	Installs, tests and services private water pressure systems	<b>6</b>
<b>MWA E</b>	<b>Installs, Tests and Services Fixtures, Appliances, and Water Treatment Systems</b>	<b>16</b>
<b>Task 14</b>	Installs, tests and services plumbing fixtures and appliances	<b>10</b>
<b>Task 15</b>	Installs, tests and services water treatment systems	<b>6</b>
<b>MWA F</b>	<b>Installs, Tests and Services Low Pressure Steam and Hydronic Systems</b>	<b>16</b>
<b>Task 16</b>	Installs, tests and services low pressure steam systems - <b>(NCC)</b>	<b>0</b>
<b>Task 17</b>	Installs, tests and services piping and components for Hydronic systems	<b>9</b>
<b>Task 18</b>	Installs, tests and services hydronic heating and cooling equipment	<b>7</b>
<b>MWA G</b>	<b>Installs, Tests and Services Specialized Systems</b>	<b>10</b>
<b>Task 19</b>	Installs, tests, services process piping systems	<b>5</b>
<b>Task 20</b>	Installs, tests, services potable water fire protection systems - <b>(NCC)</b>	<b>0</b>
<b>Task 21</b>	Installs, tests, services other specialized systems	<b>5</b>
<b>Total</b>		<b>125</b>

## RSOS Sub-tasks

The following *RSOS Task Profile Checklist* outlines the MWAs, tasks and sub-tasks for your trade. The Red Seal exam is written to test your knowledge and abilities regarding the sub-tasks in the RSOS. This chart can be used to review your current knowledge. You can review by placing a checkmark (✓) next to those you understand fully.

Place your focus on those you do not understand and study them until you are comfortable with the material. Think of possible questions in that particular content area.

The RSOS also contains a list of “supporting knowledge and abilities” for each sub-task. They are the skills and knowledge you must have to perform a sub-task. The supporting knowledge and abilities identified under each sub-task will be very helpful as you review. The list can be found in the RSOS, on the Red Seal website, for your trade.



# Task Profile Checklist Based on RSOS 2016 Plumber

## MWA A: Performs Common Occupational Skills

**Task 1: Performs Safety-Related Functions**

*Sub-Tasks*

- Maintains safe work environment
- Uses personal protection equipment (PPE) and safety equipment
- Performs lock-out and tag-out (LOTO) procedures

**Task 2: Uses and Maintains Tools and Equipment**

*Sub-Tasks*

- Uses common tools and equipment
- Uses access equipment
- Uses rigging, hoisting, lifting and positioning equipment
- Rigs loads for cranes
- Uses welding equipment
- Uses soldering and brazing equipment

**Task 3: Organizes Work**

*Sub-Tasks*

- Organizes project tasks and procedures
- Organizes materials and supplies
- Uses Documentation

**Task 4: Performs Routine Trade Activities**

*Sub-Tasks*

- Plans layout for piping systems
- Calculates tube, tubing and pipe lengths
- Installs piping supports
- Installs piping sleeves
- Commissions systems
- Protects piping systems, equipment and structure from damage
- Coordinates excavation and backfilling of trenches
- Installs fire stopping devices and materials

**Task 5: Uses Communication and Mentoring Techniques**

*Sub-Tasks*

- Uses communication techniques
- Uses mentoring techniques

## MWA B: Prepares and Assembles Tube, Tubing, and Pipe

### Task 6: Prepares Tube, Tubing, and Pipe

#### Sub-Tasks

- Inspects tube, tubing, pipe and fittings before installation
- Cuts tube, tubing, and pipe
- Bends tube, tubing, and pipe
- Prepares tube, tubing, and pipe connections

### Task 7: Joins Tube, Tubing, and Pipe

#### Sub-Tasks

- Joins copper tube, tubing, and pipe
- Joins plastic tube, tubing, and pipe
- Joins steel tube, tubing, and pipe
- Joins cast iron pipe
- Joins specialized tube, tubing, and pipe

## MWA C: Installs, Tests and Services Sewers, Sewage Treatment Systems and Drainage, Waste and Vent (DWV) Systems

### Task 8: Installs, Tests and Services Sewers

#### Sub-Tasks

- Plans layout, and sizes piping for sewers
- Installs maintenance holes, and catch basins
- Installs piping for sewers
- Tests maintenance holes, catch basins, and piping for sewers
- Services maintenance holes, catch basins, and piping for sewers

### Task 9: Installs, Tests and Services Sewage Treatment Systems

#### Sub-Tasks

- Plans installation of sewage treatment systems
- Installs components for sewage treatment systems
- Tests sewage treatment systems
- Services sewage treatment systems

### Task 10: Installs, Tests, and Services Interior Drainage, Waste, and Vent (DWV) Systems

#### Sub-Tasks

- Plans layout, and sizes piping for interior drainage, waste, and vent (DWV) systems
- Installs underground piping, and components for interior drainage, waste, and vent (DWV) systems
- Installs above-ground piping, and components for interior drainage, waste, and vent (DMV) systems
- Tests interior drainage, waste, and vent (DWV) systems
- Services interior drainage, waste, and vent (DWV) systems

## MWA D: Installs, Tests and Services Water Service

### Task 11: Installs, Tests and Services Water Services

#### Sub-Tasks

- Plans layout and sizes piping and components for water service
- Installs piping for water service
- Installs components for water service
- Tests water service piping and components
- Services water service piping and components

### Task 12: Installs, Tests and Services Potable Water Distribution Systems

#### Sub-Tasks

- Plans layout and sizes piping and components for potable water distribution systems
- Installs piping for potable water distribution systems
- Installs components for potable water distribution systems
- Installs cross-connection controls
- Tests potable water distribution systems
- Services potable water distribution systems

### Task 13: Installs, Tests and Services Private Water Pressure Systems

#### Sub-Tasks

- Plans layout and sizes piping and components for private water pressure systems
- Installs piping for private water pressure systems
- Installs components for private water pressure systems
- Tests private water pressure systems
- Services private water pressure systems

## MWA E: Installs, Tests, and Services Fixtures, Appliances, and Water Treatment Systems

### Task 14: Installs, Tests, and Services Plumbing Fixtures, and Appliances

#### Sub-Tasks

- Installs fixture supports
- Installs plumbing fixtures, and appliances
- Tests plumbing fixtures, and appliances
- Services plumbing fixtures, and appliances

### Task 15: Installs, Tests, and Services Water Treatment Systems

#### Sub-Tasks

- Sizes water treatment systems
- Installs water treatment systems
- Tests water treatment systems
- Services water treatment systems

## MWA F: Installs, Tests and Services Low Pressure Steam and Hydronic Systems

### Task 16: Installs, Tests and Services Low Pressure Steam Systems (Not Common

#### Sub-Tasks

- Plans layout, and sizes piping, and components for low pressure steam systems **(Not Common Core)**
- Installs piping and components for low pressure steam systems **(Not Common Core)**
- Tests low pressure steam systems **(Not Common Core)**
- Services low pressure steam systems **(Not Common Core)**

### Task 17: Installs, Tests, and Services Piping, and components for Hydronic Systems

#### Sub-Tasks

- Plans layout, and sizes piping, and components for Hydronic systems
- Installs piping and components for Hydronic systems
- Tests hydronic systems
- Services hydronic systems

### Task 18: Installs, Tests and Services Hydronic Heating & Cooling Equipment

#### Sub-Tasks

- Installs hydronic heating equipment
- Installs hydronic cooling equipment
- Tests hydronic heating and cooling equipment
- Services hydronic heating and cooling equipment

## MWA G: Installs, Tests and Services Specialized Systems

### Task 19: Installs, Tests, and Services Process Piping Systems

#### Sub-Tasks

- Plans layout and sizes piping and components for processing piping systems
- Installs piping for process piping systems
- Installs components for process piping systems
- Tests process piping systems
- Services process piping systems

### Task 20: Installs , Tests and Services Potable Water Fire Protection Systems

#### Not Common Core

#### Sub-Tasks

- Plans layout and sizes piping for potable water fire protection systems - **Not Common Core**
- Installs potable water fire protection systems - **Not Common Core**
- Tests potable water fire protection systems - **Not Common Core**
- Services potable water fire protection systems - **Not Common Core**

### Task 21: Installs, Tests, and Services Other Specialized Systems

#### Sub-Tasks

- Plans layout and sizes piping, components, and equipment for other specialized systems
- Installs piping and components for other specialized systems
- Installs equipment for other specialized systems
- Tests other specialized systems
- Services other specialized systems



## Create a Study Plan

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As you prepare for your exam, it is important to plan a schedule. The following two tables will help you stay on track.

The first table is a **“Weekly Study Plan.”** In this table list the areas you will focus your study for each day. You should include items you need to review as well as items you need to study. Remember, more time will be needed for study in areas you find difficult, whereas you may only require review in areas you are more familiar with. As you work through the RSOS sub-task list you can start to fill in this table.

The second table is a **“Study Time Table.”** It is important to create a study schedule where you determine the best days of the week and times of day for you to study.

Print several copies of these tables and fill out for each week of study. It is important to stick to your study schedule.

**Weekly Study Plan for Week of:** \_\_\_\_\_

	Area of Study 1	Area of Study 2	Area of Study 3	Area of Study 4	Area of Study 5	Area of Study 6
Mon.						
Tues.						
Wed.						
Thu.						
Fri.						
Sat.						
Sun.						

**Study Time Table for Week of:** \_\_\_\_\_

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
8:00 AM - 9:00 AM							
9:00 AM - 10:00 AM							
10:00 AM - 11:00 AM							
11:00 AM - 12:00 Noon							
12:00 Noon - 1:00 PM							
1:00 PM - 2:00 PM							
2:00 PM - 3:00 PM							
3:00 PM - 4:00 PM							
4:00 PM - 5:00 PM							
5:00 PM - 6:00 PM							
6:00 PM - 7:00 PM							
7:00 PM - 8:00 PM							

## Resources - Websites

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Study information can be drawn from a variety of sources. A sample list of study materials (websites and books) is provided below. These and other helpful resources may be found in a local college bookstore, on the internet, or at your place of employment. You may also be able to borrow them from an apprentice or journey person in your trade.

### Study Strategies and Exam Preparation Guide

The *Study Strategies & Exam Preparation Guide* is meant to be used in conjunction with this study guide. It provides direction and information on such areas as study habits, test preparation and test taking techniques.

<https://www.gov.nl.ca/atcd/apprentices-youth/self-study/study-guides/>

### Plan of Training (POT)

A *Provincial Plan of Training* details the full scope of learning for a particular occupation, including both technical training competencies and industry experiences necessary to write a Red Seal exam (and complete the requirements for Red Seal Certification), or to write a provincial examination. The Plan of Training is based on the National Occupational Analyses (NOA) or the new Red Seal Occupational Standard (RSOS) depending on the trade.

<https://www.gov.nl.ca/atcd/designated-trades/pots-aacs/>

### Red Seal Website

**Red Seal** is a program that sets common standards to evaluate the skills of tradespeople across Canada. It is a partnership between the Federal Government and the provinces/territories.

The Red Seal model has been based on the NOA, which supports the development of multiple-choice examinations. A new RSOS was introduced in 2015 and is taking the place of the NOA.

<http://www.red-seal.ca/>

### Plumber PRACTICE Exam

This is **NOT** a Red Seal exam. This is a practice exam provided by the Red Seal Standards program. It was developed using similar question types to that of a Red Seal exam. The exam is intended to be used for self-assessment in preparation for writing a Red Seal Exam.

Sample questions can be found at:

<http://www.red-seal.ca/s.1mpl.2.2x.1mQ.5.2st.3.4ns-eng.html?tid=181>

### Red Seal Exam Self-Assessment Guide

Use this self-assessment tool to rate your own understanding and experience with the tasks of the trade that are on the Red Seal examination:

[https://www.red-seal.ca/\\_conf/assets/custom/docms/plumber/self-assessment.pdf](https://www.red-seal.ca/_conf/assets/custom/docms/plumber/self-assessment.pdf)

### Glossary of Terms

The Red Seal website lists a Glossary of Terms, which will be helpful in preparing for your Red Seal exam:

<https://www.red-seal.ca/eng/trades/plumbers/app-c.shtml>

### Acronyms

The Red Seal website lists Acronyms, which will be helpful in preparing for your Red Seal exam:

<https://www.red-seal.ca/eng/trades/plumbers/app-a.shtml>

### List of Tools and Equipment

The Red Seal website shows a list of Tools & Equipment, which will be helpful in preparing for your Red Seal exam

<https://www.red-seal.ca/eng/trades/plumbers/app-b.shtml>

## Resources – Book List

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The books listed below can help you obtain information on specific topics. It is not necessary to use these books specifically, as you may find others that will be equally beneficial.

**If you wish to obtain any of the resources listed below, here is the reference information:**

- Basic Blueprint Reading and Sketching*, Olivo, C.T. and Olivo, P.T., ISBN 0-7668-0841-6
- IPT Pipe Trades Handbook*, ISBN 0929855180
- National Plumbing Code of Canada*, NRCC 47668
- Natural Gas and Propane Installation Code*, CAN/CSA-B149.1-05
- Mathematics for Plumbers and Pipefitters*, 7<sup>th</sup> Edition, Smith, Lee, ISBN 1-4283-0461-4
- Modern Plumbing*, ISBN 1590703502
- IPT Pipe Trades Handbook*, ISBN 0929855180
- Plumbing Manual of Instruction for the Plumbing Trade*, ISBN 0-7718-8300-5
- Plumbing Technology Design and Installation*, 4<sup>th</sup> Edition, Smith, Lee ISBN 0-7668-0841-6



## Disclaimer

Various external resources (websites, textbooks) have been listed in this study guide to assist an individual in preparing to write a Red Seal Exam. This does not mean the Department of Immigration, Population Growth and Skills, Newfoundland and Labrador, endorses the material or that these are recommended as the best resources. There may be other resources of equal or greater value to an individual preparing for a Red Seal exam. The Department of Immigration, Population Growth and Skills has no control over the content of external textbooks and websites listed, and no responsibility is assumed for the accuracy of the material.

## Conclusion

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We hope this guide has provided you with some useful tools as you prepare for your Red Seal exam. If you have any questions regarding your Red Seal exam please contact your regional office (*see Appendix A for a list of regional offices*).

We appreciate your comments and feedback regarding the usefulness of this study guide. If you have any comments or suggestions, we welcome your feedback. The feedback form at the end of this guide can be used for this purpose.

## Appendix A: Regional Offices

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If you have any questions regarding your Red Seal exam, please contact one of the following regional offices:

Department of Immigration, Population Growth and Skills  
Apprenticeship and Trades Certification Division  
Toll Free: 1-877-771-3737

<https://www.gov.nl.ca/atcd/contact-us/staff-listing-and-office-locations/>

### Corner Brook

1-3 Union Street  
Aylward Building, 2<sup>nd</sup> Floor  
Corner Brook, NL A2H 5M7

Telephone: (709) 637-2366  
Facsimile: (709) 637-2519

### Grand Falls-Windsor

42 Hardy Avenue  
Grand Falls-Windsor, NL  
A2A 2J9

Telephone: (709) 292-4215  
Facsimile: (709) 292-4502

### Clareville

45 Tilley's Road  
Clareville, NL  
A5A 1Z4

Telephone: (709) 466-3982  
Facsimile: (709) 466-3987

### St. John's

P.O. Box 8700  
1170 Topsail Road  
Mount Pearl, NL A1B 4J6

Telephone: (709) 729-2729  
Facsimile: (709) 729-5878

### Happy Valley – Goose Bay

163 Hamilton River Road  
Bursey Building  
Happy Valley – Goose Bay, NL  
AOP 1E0

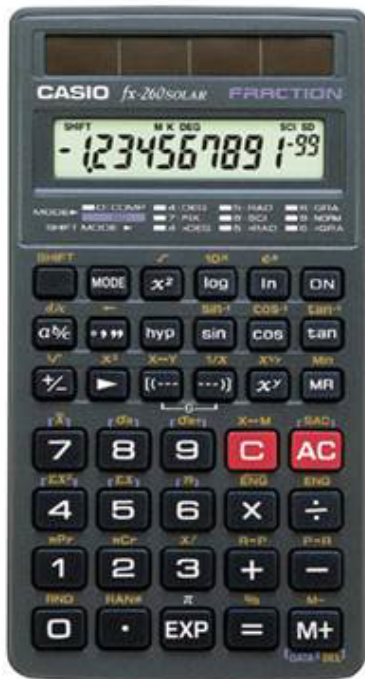
Telephone: (709) 896-6348  
Facsimile: (709) 896-3733

## Appendix B: Calculator Use

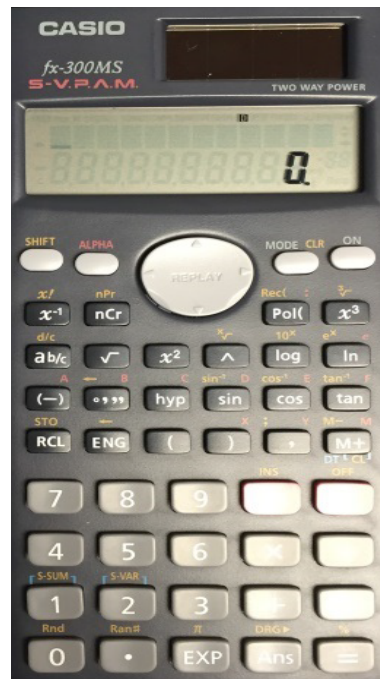
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The picture below shows a calculator with the same functions as the one you will be provided with during your exam. It is advisable to borrow or purchase one with similar functions so that you can familiarize yourself with it before you write your exam.

**Casio FX-260**



**Casio FX-300 MS**



# Appendix C: Answer Sheet Example

With your exam you will be given an answer sheet similar to the one below. When answering multiple choice questions be sure to fill the circle completely and fill the circle that corresponds to the question on the exam.

Dual readhead scanner  required  to score this sheet

KEY ID  
A B C D E

SCORING & PRINTING OPTIONS:  
 RESCORE     MULTIPLE ANSWER SCORING  
 This sheet always uses the "Total Only" scoring option.

1 T F A B C D E    26 T F A B C D E    51 T F A B C D E    76 T F A B C D E  
 2 A B C D E    27 A B C D E    52 A B C D E    77 A B C D E  
 3 A B C D E    28 A B C D E    53 A B C D E    78 A B C D E  
 4 A B C D E    29 A B C D E    54 A B C D E    79 A B C D E  
 5 A B C D E    30 A B C D E    55 A B C D E    80 A B C D E  
 6 A B C D E    31 A B C D E    56 A B C D E    81 A B C D E  
 7 A B C D E    32 A B C D E    57 A B C D E    82 A B C D E  
 8 A B C D E    33 A B C D E    58 A B C D E    83 A B C D E  
 9 A B C D E    34 A B C D E    59 A B C D E    84 A B C D E  
 10 A B C D E    35 A B C D E    60 A B C D E    85 A B C D E  
 11 A B C D E    36 A B C D E    61 A B C D E    86 A B C D E  
 12 A B C D E    37 A B C D E    62 A B C D E    87 A B C D E  
 13 A B C D E    38 A B C D E    63 A B C D E    88 A B C D E  
 14 A B C D E    39 A B C D E    64 A B C D E    89 A B C D E  
 15 A B C D E    40 A B C D E    65 A B C D E    90 A B C D E  
 16 A B C D E    41 A B C D E    66 A B C D E    91 A B C D E  
 17 A B C D E    42 A B C D E    67 A B C D E    92 A B C D E  
 18 A B C D E    43 A B C D E    68 A B C D E    93 A B C D E  
 19 A B C D E    44 A B C D E    69 A B C D E    94 A B C D E  
 20 A B C D E    45 A B C D E    70 A B C D E    95 A B C D E  
 21 A B C D E    46 A B C D E    71 A B C D E    96 A B C D E  
 22 A B C D E    47 A B C D E    72 A B C D E    97 A B C D E  
 23 A B C D E    48 A B C D E    73 A B C D E    98 A B C D E  
 24 A B C D E    49 A B C D E    74 A B C D E    99 A B C D E  
 25 A B C D E    50 A B C D E    75 A B C D E    100 A B C D E

ANSWER KEY INFO.  
# OF KEYS  
ITEM COUNT

0	0	0	2
1	1	1	3
2	2	2	4
3	3	3	5
4	4	4	6
5	5	5	7
6	6	6	8
7	7	7	9
8	8	8	0
9	9	9	1

PERFORMANCE ASSESSMENT  
% OF TOTAL SCORE (00 = 100%)    POINTS EARNED

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

Bar Code

NUMBER CORRECT	
PERCENT CORRECT	
ROSTER NUMBER	
SCORE	
RESCORE	

COMBINED POINTS EARNED	
COMBINED PERCENT CORRECT	
LETTER GRADE	
SCORE	
RESCORE	

200 ITEM

MARKING INSTRUCTIONS  
Use a No. 2 Pencil  
Fill oval completely  
Erase cleanly

STUDENT ID NUMBER

0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9

NAME \_\_\_\_\_  
SUBJECT \_\_\_\_\_  
PERIOD \_\_\_\_\_ DATE \_\_\_\_\_

## Feedback Form Study Guide - Plumber

Please answer the following:

---

- (1) This Study Guide is a useful tool for exam preparation.  
 strongly agree     agree     disagree     strongly disagree
- (2) The topics contained in the guide are arranged in a logical order.  
 strongly agree     agree     disagree     strongly disagree
- (3) The design and format of the guide caught my attention.  
 strongly agree     agree     disagree     strongly disagree
- (4) The instructions throughout the guide are clear and to the point.  
 strongly agree     agree     disagree     strongly disagree
- (5) The resources listed in this guide are suitable and valuable.  
 strongly agree     agree     disagree     strongly disagree
- (6) The guide should contain more information.  
 strongly agree     agree     disagree     strongly disagree

Suggested information/resources to include:

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Additional Comments:

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**Please complete this form and return via fax or mail to the following:**

Department of Immigration, Population Growth and Skills  
Apprenticeship and Trades Certification Division  
Standards and Curriculum Unit  
45 Tilley's Road, Clarenville, NL A5A 1Z4  
Fax: (709) 466-3987

