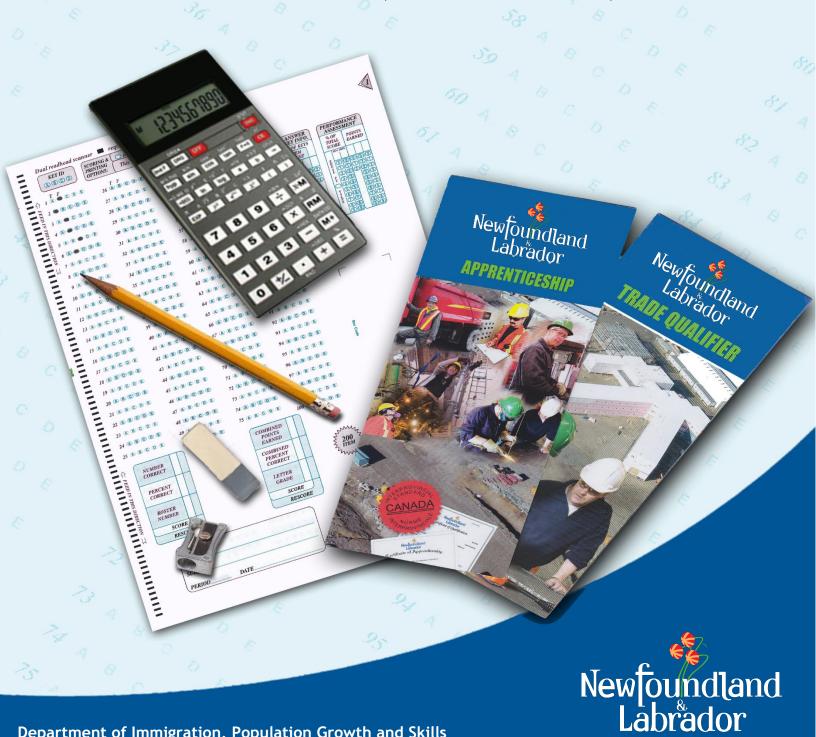
APPRENTICESHIP & CERTIFICATION

Study Guide Insulator (Heat and Frost)



Apprenticeship and Certification

Study Guide

Insulator (Heat and Frost)

(Based on Red Seal Occupational Standard – RSOS 2018)

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

Version 9

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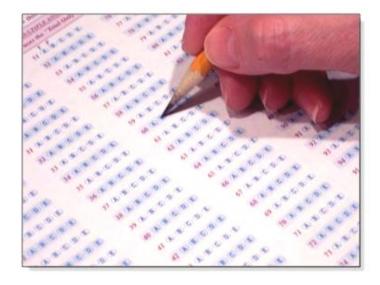
Introduction

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 Inter-provincial (IP) Red Seal Exam. IP Exams are available for all Red Seal trades. For a list of Inter-provincial 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

Before the Exam

You must contact the nearest Apprenticeship and Trades Certification Divisional office to make request to write the IP 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	hring

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

The following will be provided:

Ш	a calculator (see Appendix B for calculator inform	ation)
	all other items required such as pencils, scrap pag	er, 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

All IP 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).

IP 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.

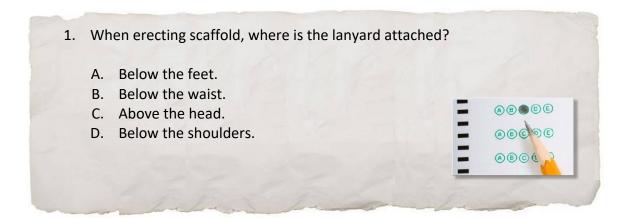
Level 2 Procedural and Application

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

Level 3 Critical Thinking

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

Level 1 Examples:



- 2. How does the use of insulation retard heat loss?
 - A. By providing a vapor barrier.
 - B. By providing a weather barrier.
 - C. By providing a thermal barrier.
 - D. By providing an acoustic barrier.



- 3. Which fasteners are used on polyurethane insulation?
 - A. Foil tape.
 - B. Fibre tape.
 - C. Aluminum banding.
 - D. Stainless steel wire.



Level 2 Examples:

- 1. Which length of 2 in. blanket material is required to cover a flange with a diameter of 8 ¼ inc. for a flexible, removable cover?
 - A. 26 in.
 - B. 32 ¼ in.
 - C. 38 ½ in.
 - D. 41 in.



- 2. What is done to prevent frost buildup when insulating plumbing vents penetrating a roof?
 - A. Install ½ in. elastomeric foam and secure with banding.
 - B. Install 1 in. fiberglass duct wrap and secure with wing staples.
 - C. Install 1 in. fiberglass duct wrap and attach with staples.
 - D. Install 1 in. fiberglass ASJ pipe insulation and secure with self-seal laps.



- 3. What size of 4 oz. canvas is required to cover a 100 mm x 25 mm iron pipe 90° elbow?
 - A. 450 mm x 400 mm.
 - B. 450 mm x 450 mm.
 - C. 500 mm x 500 mm.
 - D. 550 mm x 550 mm.



Level 3 Examples:

- 1. How many bands are needed on an 18 in. x 3 in iron pipe insulation measuring 96 ft. long, with bands on each end and at 9 in. centers?
 - A. 126
 - B. 127
 - C. 128
 - D. 129



- 2. A duct that measures 10 in. x 16 in. is to be acoustically insulated with 24 in. x 48 in. x 1 in. rigid acoustic board insulation. How wide are the pieces cut using the least amount of material?
 - A. 8 in. and 16 in.
 - B. 8 in. and 18 in.
 - C. 10 in. and 16 in.
 - D. 10 in. and 18 in.



- 3. A 100 ft. long curtain wall with a 3 in. space is to be fire-stopped with self-leveling caulking to a depth of 2 in. How much material is required to fill the void?
 - A. 3.20 cu. ft.
 - B. 4.16 cu. ft.
 - C. 41.60 cu. ft.
 - D. 50.60 cu. ft.



Source of Questions:

www.red-seal.ca/s.1mpl.2.2x.1mQ.5.2st.3.4ns-eng.html?tid=131

Exam Content

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.

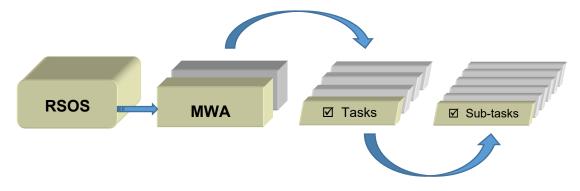
The RSOS was introduced in 2015 and is now taking the place of the NOA. Each RSOS or NOA sets the standard for a Red Seal trade. The Red Seal Inter-provincial Examination is based on the Red Seal Standard.

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*).

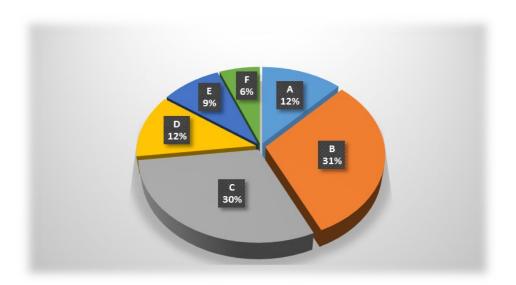


The NOA will continue to be used as the occupational standard for trades that do not yet have an RSOS developed.

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, 12% of the questions on the **Insulator (Heat and Frost)** Exam will be based on **MWA A**.

INSULATOR (HEAT AND FROST)



	MWA Titles				
MWA A	Performs Common Occupational Skills	MWA D	Performs Applications Common to Industrial and Commercial		
MWA B	Performs Industrial Applications	MWA E	Performs Specialized Applications		
MWA C	Performs Commercial Applications	MWA F	Performs Asbestos, Lead and Mold Abatement		

Exam Breakdown

The **Insulator (Heat and Frost)** exam currently has 130 questions. The following table shows a breakdown of the number of questions that come from each RSOS MWA. It is important to note that the exact 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).

пррепакт		# of Questions
MWA A	Performs Common Occupational Skills	16
Task 1	Performs safety-related functions	
Task 2	Uses and maintains tools and equipment	
Task 3	Organizes work	
Task 4	Uses communication and mentoring techniques	
Task 5	Performs routine trade practices	
MWA B	Performs Industrial Applications	40
Task 6	Prepares for installation of insulation in industrial applications	
Task 7	Insulates piping and fittings	
Task 8	Insulates tanks, vessels and equipment	
MWA C	Performs Commercial Applications	39
Task 9	Prepares for installation of insulation in commercial applications	
Task 10	Insulates plumbing and mechanical piping systems	
Task 11 Insulates mechanical ducting		
Task 12 Insulates mechanical equipment		
MWA D Performs Applications Common to Industrial and Commercial		15
Task 13	Installs fire stop systems	
Task 14	Task 14 Insulates for soundproofing	
Task 15	sk 15 Installs removable covers	
Task 16	Installs underground insulating systems	
MWA E	Performs Specialized Applications	12
Task 17	Sprays sealers, coatings and spray-on insulation	
Task 18	Task 18 Installs fireproofing	
Task 19	Task 19 Installs insulation for refractory systems	
Task 20 Installs insulation for cryogenic systems		
Task 21 Insulates for marine applications (NOT COMMON CORE)		
MWA F	MWA F Performs Asbestos, Lead and Mold Abatement	
Task 22	Task 22 Prepares for asbestos abatement	
Task 23	Performs asbestos removal procedures	
Task 24	Performs maintenance and repair	
Task 25	Performs lead abatement and mold remediation	
	Total	130

RSOS Sub-tasks

The following RSOS Task Profile Checklist outlines the MWAs, tasks and sub-tasks for your trade. The IP 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 (\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 for your trade.

Task Profile Checklist Based on 2018 RSOS Insulator (Heat and Frost)

MV	VA	A:	Performs Common Occupational Skills
		T -	ali 4. Danfarma anfaha malaha difamahkan
		ıa	sk 1: Performs safety related functions
		Sub-Tasks	 □ Uses personal protective equipment (PPE) and safety equipment □ Maintains safe work environment
		Ta	sk 2: Uses and maintains tools and equipment
		sks	☐ Uses tools and equipment
		Sub-Tasks	☐ Uses access equipment
		Ta	sk 3: Organizes work
		sks	☐ Performs task scheduling
		Sub-Tasks	☐ Organizes material on site
		Ta	sk 4: Uses communication and mentoring techniques
		asks	☐ Uses communication techniques
		Sub-Tasks	☐ Uses mentoring techniques
		Ta	sk 5: Performs routine trade practices
		Sub-Tasks	☐ Performs measurements and calculations
		rp-T	☐ Interprets specifications and drawings☐ Prepares substrate
		Sı	La Frépares substrate

	WA	AB:	Performs Industrial Application
		Tas	sk 6: Prepares for installation of insulation in industrial applications
		sks	☐ Selects materials for industrial applications
		Sub-Tasks	☐ Performs layout for industrial applications
		Sub	
		Ta	sk 7: Insulates piping and fittings
			☐ Installs insulation on piping, fittings, and hangers
		Sub-Tasks	☐ Applies vapour barrier on piping and fittings
		L-qı	☐ Installs cladding, jacketing and finishes on piping and fittings
		35	
		Ta	sk 8: Insulates tanks, vessels and equipment
		Sub-Tasks	☐ Installs insulation on tanks, vessels and equipment
		-Ta	Applies vapour barrier on tanks, vessels and equipment
		Sub	☐ Installs cladding, jacketing and finishes on tanks, vessels and equipment
M۱	N A	A C:	Performs Commercial Application
		Ta	
		ı a.	k 9: Prepares for installation of insulation in commercial applications
			☐ Selects materials for commercial applications
			·
		Sub-Tasks	☐ Selects materials for commercial applications
		Sub-Tasks	□ Selects materials for commercial applications □ Performs layout for commercial applications
		Sub-Tasks	☐ Selects materials for commercial applications ☐ Performs layout for commercial applications sk 10: Insulates plumbing and mechanical piping systems
		sks H Sub-Tasks	□ Selects materials for commercial applications □ Performs layout for commercial applications sk 10: Insulates plumbing and mechanical piping systems □ Installs insulation on plumbing and mechanical piping systems
		sks H Sub-Tasks	□ Selects materials for commercial applications □ Performs layout for commercial applications sk 10: Insulates plumbing and mechanical piping systems □ Installs insulation on plumbing and mechanical piping systems □ Applies vapour barrier on insulated plumbing and mechanical piping systems
		Sub-Tasks	□ Selects materials for commercial applications □ Performs layout for commercial applications sk 10: Insulates plumbing and mechanical piping systems □ Installs insulation on plumbing and mechanical piping systems □ Applies vapour barrier on insulated plumbing and mechanical piping systems □ Installs cladding, jacketing and finishes on insulated plumbing and mechanical
		Sub-Tasks A Sub-Tasks	 □ Selects materials for commercial applications □ Performs layout for commercial applications □ Insulates plumbing and mechanical piping systems □ Installs insulation on plumbing and mechanical piping systems □ Applies vapour barrier on insulated plumbing and mechanical piping systems □ Installs cladding, jacketing and finishes on insulated plumbing and mechanical piping systems □ Installs cladding, jacketing and finishes on insulated plumbing and mechanical piping systems
		Sub-Tasks H Sub-Tasks	□ Selects materials for commercial applications □ Performs layout for commercial applications sk 10: Insulates plumbing and mechanical piping systems □ Installs insulation on plumbing and mechanical piping systems □ Applies vapour barrier on insulated plumbing and mechanical piping systems □ Installs cladding, jacketing and finishes on insulated plumbing and mechanical piping systems sk 11: Insulates mechanical ducting
		Sub-Tasks H Sub-Tasks	□ Selects materials for commercial applications □ Performs layout for commercial applications sk 10: Insulates plumbing and mechanical piping systems □ Installs insulation on plumbing and mechanical piping systems □ Applies vapour barrier on insulated plumbing and mechanical piping systems □ Installs cladding, jacketing and finishes on insulated plumbing and mechanical piping systems sk 11: Insulates mechanical ducting □ Installs insulation on mechanical ducting
		Sub-Tasks H Sub-Tasks	□ Selects materials for commercial applications □ Performs layout for commercial applications sk 10: Insulates plumbing and mechanical piping systems □ Installs insulation on plumbing and mechanical piping systems □ Applies vapour barrier on insulated plumbing and mechanical piping systems □ Installs cladding, jacketing and finishes on insulated plumbing and mechanical piping systems sk 11: Insulates mechanical ducting □ Installs insulation on mechanical ducting □ Applies vapour barrier on insulated mechanical ducting
		Sub-Tasks A Sub-Tasks	□ Selects materials for commercial applications □ Performs layout for commercial applications sk 10: Insulates plumbing and mechanical piping systems □ Installs insulation on plumbing and mechanical piping systems □ Applies vapour barrier on insulated plumbing and mechanical piping systems □ Installs cladding, jacketing and finishes on insulated plumbing and mechanical piping systems sk 11: Insulates mechanical ducting □ Installs insulation on mechanical ducting
		Sub-Tasks & Sub-Tasks	□ Selects materials for commercial applications □ Performs layout for commercial applications sk 10: Insulates plumbing and mechanical piping systems □ Installs insulation on plumbing and mechanical piping systems □ Applies vapour barrier on insulated plumbing and mechanical piping systems □ Installs cladding, jacketing and finishes on insulated plumbing and mechanical piping systems sk 11: Insulates mechanical ducting □ Installs insulation on mechanical ducting □ Applies vapour barrier on insulated mechanical ducting
		Sub-Tasks H Sub-Tasks H Sub-Tasks	□ Selects materials for commercial applications □ Performs layout for commercial applications sk 10: Insulates plumbing and mechanical piping systems □ Installs insulation on plumbing and mechanical piping systems □ Applies vapour barrier on insulated plumbing and mechanical piping systems □ Installs cladding, jacketing and finishes on insulated plumbing and mechanical piping systems sk 11: Insulates mechanical ducting □ Installs insulation on mechanical ducting □ Applies vapour barrier on insulated mechanical ducting □ Installs cladding, jacketing and finishes on insulated mechanical ducting □ Installs cladding, jacketing and finishes on insulated mechanical ducting
		Sub-Tasks & Sub-Tasks	□ Selects materials for commercial applications □ Performs layout for commercial applications sk 10: Insulates plumbing and mechanical piping systems □ Installs insulation on plumbing and mechanical piping systems □ Applies vapour barrier on insulated plumbing and mechanical piping systems □ Installs cladding, jacketing and finishes on insulated plumbing and mechanical piping systems sk 11: Insulates mechanical ducting □ Installs insulation on mechanical ducting □ Applies vapour barrier on insulated mechanical ducting □ Installs cladding, jacketing and finishes on insulated mechanical ducting □ Installs cladding, jacketing and finishes on insulated mechanical ducting

M۱	NΑ	D:	Per	forms Applications Common to Industrial and Commercial
	□ Ta			
			k 13:	Installs fire stop systems
		sks		Identifies approved fire stop system
		-Ta		Applies fire stop materials to architectural, structural, mechanical and
		Sub-Tasks		electrical components
		Tas	k 14:	Insulates for soundproofing
		S		Insulates piping for soundproofing
		Sub-Tasks		Insulates turbines, equipment and mechanical systems for soundproofing
		L-qı		Fabricates acoustic panels (NOT COMMON CORE)
		25		Installs acoustic panels to ceilings and walls (NOT COMMON CORE)
		Tas	k 15:	Installs removable covers
		ks		Fabricates removable covers
		Tas		Fastens removable covers
		Sub-Tasks		
		Tas	k 16.	Installs underground insulating systems
				Installs pipe insulation to underground systems
		ask	_	Installs pour-in-place and spray-on insulation to underground systems
		Sub-Tasks		mistans pour mi place and spray on misdiation to underground systems
		Su		

M۱	NΑ	E:	Per	forms Specialized Applications
		Tas	k 17	: Sprays sealers, coatings and spray-on insulation
		sks		Protects surrounding work area for spraying
		-Ta		Prepares material, equipment and substrate for spraying
		Sub-Tasks		Installs reinforcing material for spraying
		Ο,		Applies spray-on insulation, coatings, and sealers
		Tas	k 18	3: Installs fireproofing
		ks		Applies fireproofing to architectural, structural, mechanical and electrical
		Tas		components
		Sub-Tasks		Applies protective covering to fireproofing materials
		Tag	k 10	9: Installs insulation for refractory systems
	lask 13. Histalis Hisulation for Terractory Systems		installs insulation for refractory systems	
		S		Applies insulation to refractory systems
		rast		Installs reflective systems
		Sub-Tasks		Installs cladding, jacketing and finishes to refractory systems
		S		
		Tas	k 20): Installs insulation for cryogenic systems
		sks		Applies insulation to cryogenic systems
		-Ta		Applies vapour barrier to insulated components of cryogenic systems
		Sub-Tasks		Installs cladding, jacketing and finishes to cryogenic systems
		Tas	k 21	: Insulates for marine applications (NOT COMMON CORE)
				, , , , , , , , , , , , , , , , , , , ,
		ks		Insulates bulkheads, deckheads and hulls (NOT COMMON CORE)
		Tas		Installs cladding, jacketing and finishes on marine applications (NOT COMMON
		Sub-Tasks		CORE)
		V)		

M۱	W A	A F:	Per	forms Asbestos, Lead and Mold Abatement
		Ta	sk 22	2: Prepares for asbestos abatement
		sks		Determines required personal protective equipment (PPE)
		-Ta		Retrieves sample of asbestos for testing
		Sub-Tasks		Determines scope of work
		0,		Prepares site for removal and containment of asbestos
				Builds temporary enclosure
	П	Ta	sk 23	3: Performs asbestos removal procedures
		ks		Removes asbestos
		Tas		Disposes of asbestos materials
		Sub-Tasks		Performs decontamination of area and equipment
		S		
		Ta	sk 2 4	1: Performs maintenance and repair
		ks		Encapsulates asbestos
		-Tas		Encloses asbestos
		Sub-Tasks		
		•,		
		Ta	sk 25	5: Performs lead abatement and mold remediation
		sks		Performs lead abatement
		Sub-Tasks		Performs mold remediation
		Sub		

Create Study Plan

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 subtask 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.	<u> </u>					

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

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 journeyperson 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 an IP 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 RSOS.

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 National Occupational Analyses (NOA) which supports the development of multiple-choice examinations. A new Red Seal Occupational Standard (RSOS) was introduced in 2015 and is taking the place of the NOA.

http://www.red-seal.ca/initiatives/str.2ngth.2n.3ng-eng.html

Insulator (Heat and Frost) PRACTICE Exam

This is **NOT** an IP exam. This is a practice exam provided by the Inter-provincial Standards Red Seal 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 an IP Exam.

http://www.red-seal.ca/s.1mpl.2.2x.1mQ.5.2st.3.4ns-eng.html?tid=131

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/insulator/self-assessment.pdf

Glossary of Terms

The Red Seal website also lists a Glossary of Terms which will be helpful in preparing for your IP exam: http://www.red-seal.ca/trades/insulatorheatfrost/2018rs.4s_.1ppc_gl.4ss.1ry-eng.html

Acronyms

The Red Seal website also lists Acronyms which will be helpful in preparing for your IP exam: http://www.red-seal.ca/trades/insulatorheatfrost/2018rs.4s .1pp.1 .1cr.4nym-eng.html

List of Tools and Equipment

The Red Seal website lists Tools and Equipment which will be helpful in preparing for the IP exam: http://www.red-seal.ca/trades/insulatorheatfrost/2018rs.4s_.1ppb_t.4.4ls-eng.html

Resources – Book List

The book listed below can help you obtain information on specific topics. It is not necessary to use this book specifically, as you may find others that will be equally beneficial.
If you wish to obtain the resource listed, here is the reference information:
☐ National Commercial & Industrial Insulation Standards, 7 th edition, MICA Insulation, 1979, Micainsulation.org, Product Code NC117P

Disclaimer

Various external resources (websites, textbooks) have been listed in this study guide to assist an individual in preparing to write an IP Red Seal Exam. This does not mean the Department of Immigration, Population Growth and Skills, Newfoundland and Labrador endorse 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 an IP 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

We hope this guide has provided you with some useful tools as you prepare for your IP Red Seal exam. If you have any questions regarding your IP 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

If you have any questions regarding your IP 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, 2nd Floor Corner Brook, NL A2H 5M7

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

Clarenville

45 Tilley's Road Clarenville, NL A5A 1Z4

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

Grand Falls-Windsor

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

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

St. John's

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

Telephone: (709) 729-5688 Facsimile: (709) 729-5878

Happy Valley – Goose Bay

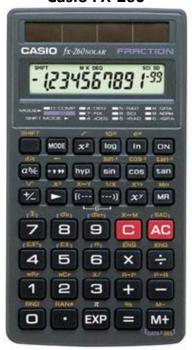
163 Hamilton River Road Bursey Building Happy Valley – Goose Bay, NL AOP 1E0

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

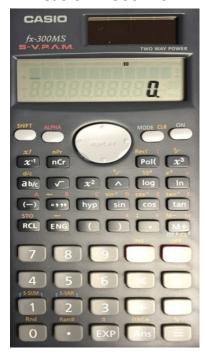
Appendix B: Calculator Use

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

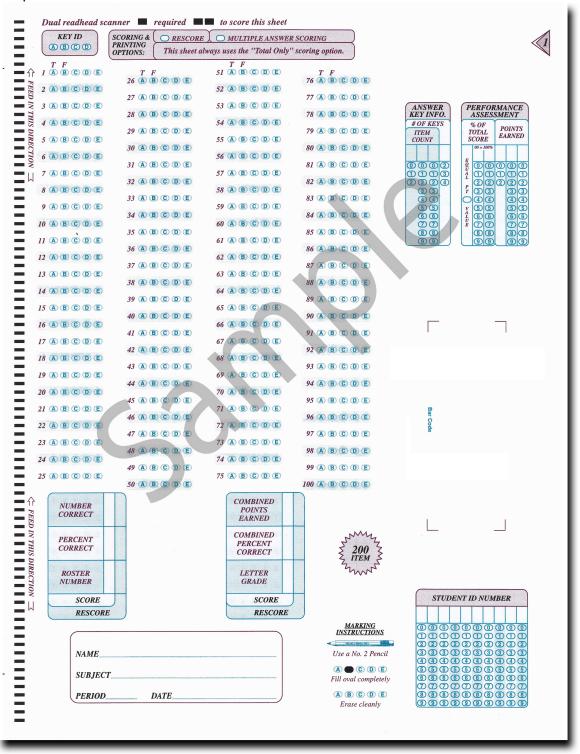


Casio FX-300 MS



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.



Feedback Form Study Guide – Insulator (Heat and Frost)

Pleas	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 ☐ strongly agree	d in the guide a □ agree	re arranged in a □ disagree	a logical order. ☐ strongly disagree			
(2)		-	-	0, 0			
(3)	The design and form ☐ 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	_					
	☐ strongly agree	□ agree	□ disagree	☐ strongly disagree			
(6)	The guide should co ☐ strongly agree	ntain more info ☐ agree	ormation. □ disagree	☐ strongly disagree			
Suggested information/resources to include:							
Additional Comments:							

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

