

# APPRENTICESHIP & CERTIFICATION

## Study Guide Ironworker (Generalist)



# **Apprenticeship and Certification**

## **Study Guide**

# **Ironworker (Generalist)**

**(Based on 2015 NOA)**

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

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## 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 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

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### 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 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:**

- 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 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:

1. What needs to be done with damaged slings?
  - A. Destroy them.
  - B. Repair them.
  - C. Downgrade them.
  - D. Continue to use them with caution.



2. What is lubricated and aligned before the erection of the main jib?

- A. Turntable.
- B. Trolley.
- C. Pendants.
- D. Bridles.



3. Where is the identification of a tower crane found?

- A. In the operator's cab.
- B. On all major components.
- C. At the base of the tower.
- D. In the manufacturers' manual.



### Level 2 Examples:

1. What would be the total for the grid line numbers  $50^{\circ} 50$  minutes plus  $48^{\circ} 40$  minutes?

- A.  $98^{\circ} 90$  minutes.
- B.  $99^{\circ} 30$  minutes.
- C.  $100^{\circ} 88$  minutes.
- D.  $188^{\circ} 0$  minutes.



2. If when installing a set of stairs, it takes 4 ironworkers 3 hours to complete a job, how many hours will it take 3 ironworkers to complete the same job?
- A. 3 hours.
  - B. 4 hours.
  - C. 6 hours.
  - D. 12 hours.



3. What is the proper sequence prior to disconnecting the conveyor chain from an existing system?
- A. Disengage the take-up, check the elevations and secure the chain.
  - B. Disengage the drive, remove the pins and secure the chain.
  - C. Remove the chain pins, check and secure the take-up.
  - D. Remove the drive chain, check the take-up and remove the pins.



**Level 3 Examples:**

1. How many 20 ft. sections of tower weighing 3400 lb. each can be hoisted and placed inside an elevator shaft at the same time with a crane capacity of 5 tons, a building height of 210 ft. and an under-hook height of 273 ft.?
- A. 2.
  - B. 3.
  - C. 4.
  - D. 5.





2. Which colors of the color code represent a reinforcing steel bar 5280 mm in length??

- A. Dark blue, pink, light blue, red.
- B. Dark blue, red, light blue, pink.
- C. Light blue, red, dark blue, pink.
- D. Light blue, pink, dark blue, red.



3. What is the final force on a 15 mm strand of post-tensioning cable?

- A. 10 kN.
- B. 147 kN.
- C. 157 kN.
- D. 190 kN.



**Source of Questions:**

<http://www.red-seal.ca/s.1mpl.2.2x.1mQ.5.2st.3.4ns-eng.html?tid=132>

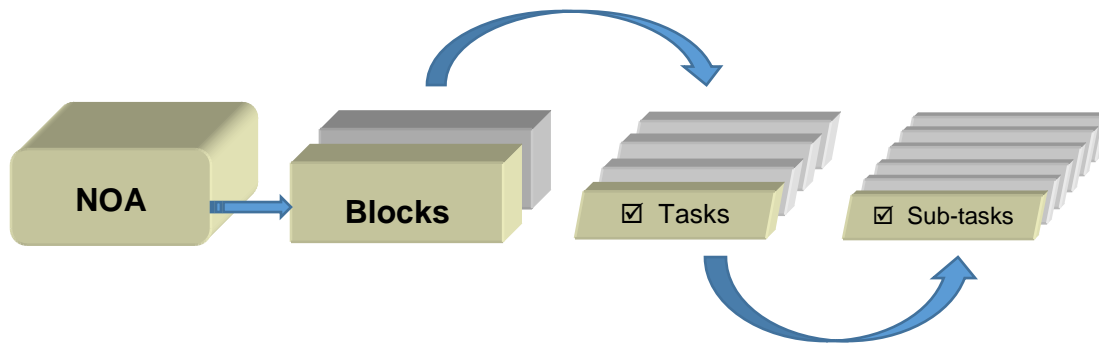
## Exam Content

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### Understanding the *National Occupational Analysis (NOA)*

The NOA is a document used for Red Seal trades that describes the knowledge, skills and abilities required by a fully competent trades-person working in that trade. The content for the IP Red Seal exam is based on the NOA. The NOA is an excellent tool to use as you study for the Red Seal exam. NOAs can be found at <http://www.red-seal.ca/>.

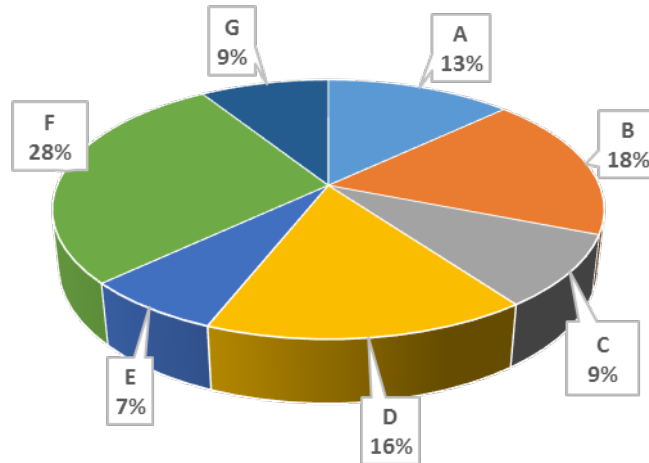
NOA material is organized into major content areas called **BLOCKS**. The blocks are further broken down into **TASKS** and **SUB-TASKS**.



## NOA Pie Chart

The NOA Pie Chart presents the block percentages in the form of a pie chart which tells you the approximate number of questions from each block. For example, **13%** of the questions on the **Ironworker (Generalist)** Exam will be based on Block A.

**IRONWORKER (GENERALIST)**



Block Titles			
<b>Block A</b>	Occupational Skills	<b>Block E</b>	Pre-Stresses/Post-Tensions
<b>Block B</b>	Rigging and Hoisting	<b>Block F</b>	Erection, Assembly and Installation
<b>Block C</b>	Cranes	<b>Block G</b>	Maintenance and Upgrading
<b>Block D</b>	Reinforcing		

## Exam Breakdown

The **Ironworker (Generalist)** exam currently has 120 questions. The following table shows a breakdown of the number of questions that come from each NOA block. 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).

		# of Questions
<b>Block A</b>	<b>Occupational Skills</b>	<b>15</b>
<b>Task 1</b>	Interprets occupational documentation	
<b>Task 2</b>	Communicates in the workplace	
<b>Task 3</b>	Uses and maintains tools and equipment	
<b>Task 4</b>	Organizes work	
<b>Block B</b>	<b>Rigging and Hoisting</b>	<b>22</b>
<b>Task 5</b>	Selects rigging equipment	
<b>Task 6</b>	Uses hoisting and lifting equipment	
<b>Block C</b>	<b>Cranes</b>	<b>11</b>
<b>Task 7</b>	Select, assemble and erect cranes and components	
<b>Task 8</b>	Disassembles cranes	
<b>Block D</b>	<b>Reinforcing</b>	<b>19</b>
<b>Task 9</b>	Fabricates on-site	
<b>Task 10</b>	Installs reinforcing material	
<b>Block E</b>	<b>Pre-Stresses/Post-Tensions</b>	<b>8</b>
<b>Task 11</b>	Places pre-stressed/post-tensioning systems	
<b>Task 12</b>	Stresses tendons	
<b>Task 13</b>	Grouts tendons	
<b>Block F</b>	<b>Erection, Assembly and Installation</b>	<b>34</b>
<b>Task 14</b>	Installs primary and secondary structural members	
<b>Task 15</b>	Installs ornamental components and systems	
<b>Task 16</b>	Installs conveyors, machinery and equipment	
<b>Block G</b>	<b>Maintenance and Upgrading</b>	<b>11</b>
<b>Task 17</b>	Repairs components	
<b>Task 18</b>	Dismantles and removes structural, mechanical and miscellaneous components	
	<b>Total</b>	<b>120</b>

## NOA Sub-tasks

The following *NOA Task Profile Checklist* outlines the blocks, 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 NOA. 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 NOA 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 NOA for your trade.



**Task Profile Checklist  
Based on 2015 NOA  
Ironworker (Generalist)**

**Block A: Occupational Skills**

**Task 1: Interprets occupational documentation**

*Sub-Tasks*

- Interprets drawings and specifications.
- Interprets standards, regulations and procedures.

**Task 2: Communicates in the workplace**

*Sub-Tasks*

- Communicates with co-workers.
- Communicates with others.
- Communicates with apprentices.
- Uses hand signals.
- Communicates electronically.

**Task 3: Uses and maintains tools and equipment**

*Sub-Tasks*

- Uses hand tools and measuring equipment.
- Uses power tools.
- Uses bending tools and equipment.
- Uses powder-actuated tools.
- Uses aerial work platforms.
- Uses ladders.
- Uses scaffolding.
- Uses personal protective equipment (PPE).
- Uses surveying equipment.
- Uses welding equipment.
- Uses thermal and oxy-fuel cutting equipment.

**Task 4: Organizes work**

*Sub-Tasks*

- Organizes materials and supplies.
- Marks layouts.
- Maintains safe work environment.
- Assesses site hazards.
- Plans work tasks.

## Block B: Rigging and Hoisting

### Task 5: Selects rigging equipment

#### Sub-Tasks

- Matches load to lift capability.
- Inspects rigging equipment.
- Maintains rigging equipment.

### Task 6: Uses hoisting and lifting equipment

#### Sub-Tasks

- Uses hoisting equipment.
- Uses lifting equipment.
- Attaches rigging to load.

## Block C: Cranes

### Task 7: Select, assemble and erect cranes and components

#### Sub-Tasks

- Assesses crane site limitations.
- Determines crane position.
- Prepares bases.
- Erects cranes and components.

### Task 8: Disassembles cranes

#### Sub-Tasks

- Disassembles crane components.
- Prepares crane for transport.

## Block D: Reinforcing

### Task 9: Fabricates on-site

#### Sub-Tasks

- Cuts material.
- Bends material.

### Task 10: Installs reinforcing material

#### Sub-Tasks

- Places reinforcing material.
- Ties material.
- Joins material.

## Block E: Pre-Stresses/Post-Tensions

### Task 11: Places pre-stressed/post-tensioning systems

#### Sub-Tasks

- Lays out profile.
- Places tendons and accessories.
- Installs bursting steel and anchorages.
- Connects tendons to anchors.
- Protects exposed tendons.

### Task 12: Stresses tendons

#### Sub-Tasks

- Sets up stressing equipment.
- Tensions tendons.
- Cuts and caps tendons.
- Removes stressing equipment.
- De-stresses tendons.

### Task 13: Grouts tendons

#### Sub-Tasks

- Sets up grouting equipment.
- Installs grouts.

## Block F: Erection, Assembly And Installation

### Task 14: Installs primary and secondary structural members

- Sub-Tasks**
- Erects false work.
  - Attaches structural members.
  - Levels, plumbs and aligns structural members.
  - Completes installation of structural members.

### Task 15: Installs ornamental components and systems

- Sub-Tasks**
- Installs curtain walls and window walls.
  - Installs miscellaneous components.

### Task 16: Installs conveyors, machinery and equipment

- Sub-Tasks**
- Installs material handling systems.
  - Aligns material handling systems.
  - Places machinery and equipment.

## Block G: Maintenance and Upgrading

### Task 17: Repairs components

- Sub-Tasks**
- Assesses current condition of components.
  - Field-fabricates components.
  - Replaces components.
  - Performs preventative maintenance.

### Task 18: Dismantles and removes structural, mechanical and miscellaneous components

- Sub-Tasks**
- Ensures decommissioning of structure or components.
  - Plans sequence of disassembly.
  - Removes components.

## Create a 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 NOA 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 journeyman 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 NOA.

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

### Red Seal Website

**National Occupational Analysis** - The NOA is a document used for Red Seal trades that describes the knowledge and abilities required by a fully competent tradesperson working in that trade. The content for the IP exam is based on the NOA.

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

### Ironworker 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.

[www.red-seal.ca/s.1mpl.2.2x.1mQ.5.2st.3.4ns-eng.html?tid=132](http://www.red-seal.ca/s.1mpl.2.2x.1mQ.5.2st.3.4ns-eng.html?tid=132)

### 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/ironworker-gen/self-assessment.pdf](https://www.red-seal.ca/_conf/assets/custom/docms/ironworker-gen/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/ironwork\\_gen/2015n.4.1\\_.1ppb\\_gl.4ss.1ry-eng.html](http://www.red-seal.ca/trades/ironwork_gen/2015n.4.1_.1ppb_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/ironwork\\_gen/2015n.4.1\\_.1ppc\\_.1cr.4nym-eng.html](http://www.red-seal.ca/trades/ironwork_gen/2015n.4.1_.1ppc_.1cr.4nym-eng.html)

### List of Tools and Equipment

The Red Seal website also shows a list of Tools and Equipment which will be helpful in preparing for your IP exam:

[http://www.red-seal.ca/trades/ironwork\\_gen/2015n.4.1\\_.1pp.1\\_t.4.4ls-eng.html](http://www.red-seal.ca/trades/ironwork_gen/2015n.4.1_.1pp.1_t.4.4ls-eng.html)

## Resources – Book List

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The books listed below are sorted according to NOA blocks as referenced throughout this study guide. You can use this list to 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 above, here is the reference information:**

- Structural Welding Code--Steel*, [Standard] AWS D1.1/D1.1M:2010,
- Detailing for Steel Construction*, 3<sup>rd</sup> edition, May, 2002, American Institute of Steel Construction, ISBN 1564240541
- Fundamentals of Reinforced and Pre-stressed Concrete (video)*, 1988, Portland Cement Association, Skokie, Ill.: The Association, OCLC #35247129
- Structural Manual for Ironworkers, 3 Volumes: Manual V*, January 1, 1979, IABRIW, International Association of Bridge, Structural, Ornamental and Reinforcing Ironworkers, ASIN: B002A6QLMS
- Swing Stage Basic Rigging and Operating Procedures, Volume 1: Manual V*, 1987, Format: DVD

## 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

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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

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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, 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

Clarenville
45 Tilley's Road Clarenville, 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

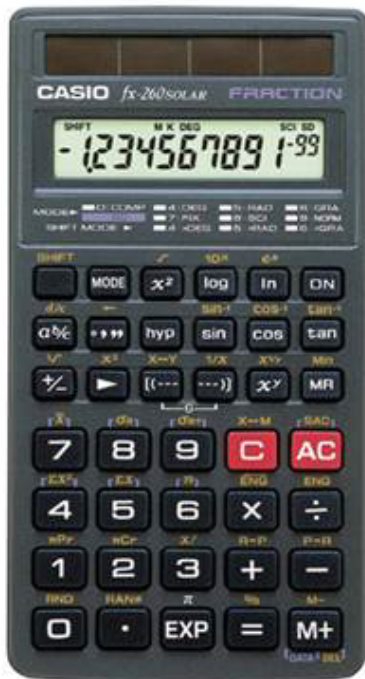
Happy Valley – Goose Bay
163 Hamilton River Road Burse Building Happy Valley – Goose Bay, NL A0P 1E0
Telephone: (709) 896-6348 Facsimile: (709) 896-3733

## Appendix B: Calculator Use

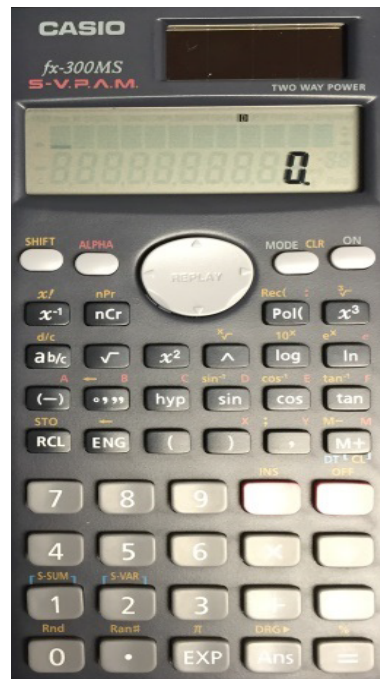
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The picture below shows a calculator with the same functions as the one you will be provided with during your exam. It is advisable to borrow or purchase one with similar functions so that you can familiarize yourself with it before you write your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

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

FEED IN THIS DIRECTION ↑

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

0% = 100%			
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  
A ● C D E  
Fill oval completely  
A B C D E  
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

FEED IN THIS DIRECTION ↑

NAME \_\_\_\_\_

SUBJECT \_\_\_\_\_

PERIOD \_\_\_\_\_ DATE \_\_\_\_\_

## Feedback Form Study Guide – Ironworker (Generalist)

Please answer the following:

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- (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, Clarendville, NL A5A 1Z4  
Fax: (709) 466-3987

