



# **RED SEAL EXAM**

# **SELF-ASSESSMENT GUIDE**

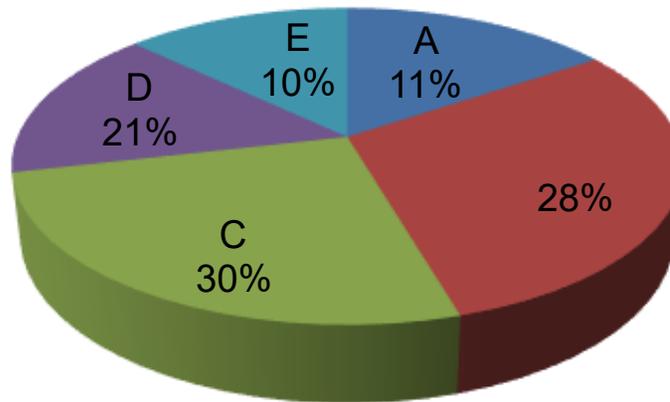
## **CONSTRUCTION ELECTRICIAN**



# Red Seal Exam Weighting

This pie chart represents the distribution of questions on the Red Seal Exam. The self-assessment on the next pages shows the Tasks and Sub-tasks within each Major Work Activity and the number of questions assigned to each Major Work Activity and Task.

The Red Seal Exam for this trade has 100 questions.



	<b>Major Work Activity / Exam Section</b>	<b>Number of Questions out of 100</b>
A	Performs common and occupational skills	11
B	Installs, services and maintains generating, distribution and service systems	28
C	Installs, services and maintains wiring systems	30
D	Installs, services and maintains motors and control systems	21
E	Installs, services and maintains signalling and communication systems	10

# Breakdown of Red Seal Exam Questions and Self-Assessment

Rate your own understanding and experience with each task. Look at the activities that make up each task and consider your experience with them of them when rating yourself. Be honest!

 <b>LOW</b>	I have <b>no or very little understanding or experience</b> in this activity
 <b>MEDIUM</b>	I <b>understand</b> this activity and have <b>some experience</b> doing it in <b>limited</b> situations
 <b>HIGH</b>	I have a <b>very good understanding</b> of this activity and am <b>fully competent</b> in doing it in <b>many</b> situations

This is not intended to accurately predict how you will actually do on the exam – there may be areas where you are over-confident or under-confident. But it should give you an idea of your strengths and weaknesses.

After you rate your own knowledge and experience as **LOW**, **MEDIUM** or **HIGH**, check how many questions there are and write down how many you think you will get correct.

**LOW**, you may not get many of those questions right.

**MEDIUM**, you might get some right.

**HIGH**, you expect to be able to get most of those questions right.

Comparing your scores with the number of questions on the exam will help you identify which areas you need to prepare the most. Add up your scores from each section to get an idea of your overall readiness for the exam.

	 <b>LOW</b> <b>Understanding</b> <b>/ Experience</b>	 <b>MEDIUM</b> <b>Understanding</b> <b>/ Experience</b>	 <b>HIGH</b> <b>Understanding</b> <b>/ Experience</b>	Number of questions on the Red Seal exam	Based on your self-rating, how many of the questions do you think you will get correct?
<b>A – Performs common occupational skills</b>					
1. Performs safety-related functions 1.01 Uses personal protective equipment (PPE) and safety equipment 1.02 Maintains safe work environment 1.03 Performs lock-out and tag-out procedures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	<input type="text"/>
2. Uses tools and equipment 2.01 Uses common and specialty tools and equipment 2.02 Uses access equipment 2.03 Uses rigging, hoisting and lifting equipment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	<input type="text"/>

	 <b>LOW</b> <b>Understanding</b> <b>/ Experience</b>	 <b>MEDIUM</b> <b>Understanding</b> <b>/ Experience</b>	 <b>HIGH</b> <b>Understanding</b> <b>/ Experience</b>	Number of questions on the Red Seal exam	Based on your self-rating, how many of the questions do you think you will get correct?
3. Organizes work 3.01 Interprets plans, drawings and specifications 3.02 Organizes materials and supplies 3.03 Plans project tasks and procedures 3.04 Prepares worksite 3.05 Finalizes required documentation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	
4. Fabricates and installs support components 4.01 Fabricates support structures 4.02 Installs brackets, hangers and fasteners 4.03 Installs seismic restraint systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	
5. Commissions and decommissions electrical systems 5.01. Performs startup and shutdown procedures 5.02 Performs commissioning and decommissioning of systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	

	 <b>LOW</b> <b>Understanding</b> <b>/ Experience</b>	 <b>MEDIUM</b> <b>Understanding</b> <b>/ Experience</b>	 <b>HIGH</b> <b>Understanding</b> <b>/ Experience</b>	Number of questions on the Red Seal exam	Based on your self-rating, how many of the questions do you think you will get correct?
6. Uses communication and mentoring techniques 6.01 Uses communication techniques 6.02 Uses mentoring techniques	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="text"/>
Total number of questions for this section:				11	SUM OF YOUR EXPECTED CORRECT ANSWERS <input type="text"/>

	 <b>LOW</b> <b>Understanding</b> <b>/ Experience</b>	 <b>MEDIUM</b> <b>Understanding</b> <b>/ Experience</b>	 <b>HIGH</b> <b>Understanding</b> <b>/ Experience</b>	Number of questions on the Red Seal exam	Based on your self-rating, how many of the questions do you think you will get correct?
<b>B – Installs, services and maintains generating, distribution and service systems</b>					
7. Installs, services and maintains consumer/supply services and metering equipment 7.01 Installs single-phase consumer/supply services and metering equipment 7.02 Installs three-phase consumer/supply services and metering equipment 7.03 Performs servicing and maintenance of single-phase consumer/supply services and metering equipment 7.04 Performs servicing and maintenance of three-phase consumer/supply services and metering equipment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	
8. Installs, services and maintains protection devices 8.01 Installs overcurrent protection devices 8.02 Installs ground fault, arc fault and surge protection devices 8.03 Performs servicing and maintenance of protection devices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	

	 <b>LOW</b> <b>Understanding</b> <b>/ Experience</b>	 <b>MEDIUM</b> <b>Understanding</b> <b>/ Experience</b>	 <b>HIGH</b> <b>Understanding</b> <b>/ Experience</b>	Number of questions on the Red Seal exam	Based on your self-rating, how many of the questions do you think you will get correct?
9. Installs, services and maintains power distribution equipment 9.01 Installs power distribution equipment 9.02 Performs servicing and maintenance of power distribution equipment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	<input type="text"/>
10. Installs, services and maintains power conditioning, uninterruptible power supply (UPS) and surge suppression systems 10.01 Installs power conditioning, UPS and surge suppression systems 10.02 Performs servicing and maintenance of power conditioning, UPS and surge suppression systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	<input type="text"/>
11. Installs, services and maintains bonding and grounding, and ground fault protection and detection systems 11.01 Installs bonding and grounding systems 11.02 Installs ground fault protection and detection systems 11.03 Installs lightning protection systems 11.04 Performs servicing and maintenance of bonding and grounding systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	<input type="text"/>

	 <b>LOW</b> <b>Understanding</b> <b>/ Experience</b>	 <b>MEDIUM</b> <b>Understanding</b> <b>/ Experience</b>	 <b>HIGH</b> <b>Understanding</b> <b>/ Experience</b>	Number of questions on the Red Seal exam	Based on your self-rating, how many of the questions do you think you will get correct?
12. Installs, services and maintains power generation and conversion systems 12.01 Installs alternating current (AC) generating systems 12.02 Performs servicing and maintenance of AC generating systems 12.03 Installs direct current (DC) generating and conversion systems 12.04 Performs servicing and maintenance of DC generating and conversion systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	<input type="text"/>
13. Installs, services and maintains renewable energy generating and storage systems 13.01 Installs renewable energy generating and storage systems 13.02 Performs servicing and maintenance of renewable energy generating and storage systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	<input type="text"/>
14. Installs, services and maintains high-voltage systems 14.01 Installs high-voltage equipment 14.02 Installs high-voltage cables 14.03 Performs servicing and maintenance of high-voltage systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	<input type="text"/>

	 <b>LOW</b> <b>Understanding</b> <b>/ Experience</b>	 <b>MEDIUM</b> <b>Understanding</b> <b>/ Experience</b>	 <b>HIGH</b> <b>Understanding</b> <b>/ Experience</b>	Number of questions on the Red Seal exam	Based on your self-rating, how many of the questions do you think you will get correct?
15. Installs, services and maintains transformers 15.01 Installs extra-low-voltage transformers 15.02 Installs low-voltage single-phase transformers 15.03 Installs low-voltage three-phase transformers 15.04 Installs high-voltage transformers 15.05 Performs servicing and maintenance of transformers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	<input type="text"/>
Total number of questions for this section:				<b>28</b>	SUM OF YOUR EXPECTED CORRECT ANSWERS <input type="text"/>

	 <b>LOW</b> <b>Understanding</b> <b>/ Experience</b>	 <b>MEDIUM</b> <b>Understanding</b> <b>/ Experience</b>	 <b>HIGH</b> <b>Understanding</b> <b>/ Experience</b>	Number of questions on the Red Seal exam	Based on your self-rating, how many of the questions do you think you will get correct?
<b>C – Installs, services and maintains wiring systems</b>					
16. Installs, services and maintains raceways, conductors, cables and enclosures 16.01 Installs conductors and cables 16.02 Installs conduit and fittings 16.03 Installs raceways 16.04 Installs boxes and enclosures 16.05 Performs servicing and maintenance of raceways, conductors, cables and enclosures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9	
17. Installs, services and maintains branch circuitry and devices 17.01 Installs luminaires 17.02 Installs wiring devices 17.03 Installs lighting controls 17.04 Installs lighting standards 17.05 Performs servicing of branch circuitry 17.06 Installs, services and maintains airport visual aid systems 17.07 Installs, services and maintains traffic signal lights and controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9	

	 <b>LOW</b> <b>Understanding</b> <b>/ Experience</b>	 <b>MEDIUM</b> <b>Understanding</b> <b>/ Experience</b>	 <b>HIGH</b> <b>Understanding</b> <b>/ Experience</b>	Number of questions on the Red Seal exam	Based on your self-rating, how many of the questions do you think you will get correct?
18. Installs, services and maintains heating, ventilating and air-conditioning (HVAC) systems 18.01 Connects HVAC systems and associated equipment 18.02 Installs HVAC controls 18.03 Performs servicing and maintenance of HVAC systems and controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	
19. Installs, services and maintains electric heating systems 19.01 Installs electric heating systems 19.02 Installs electric heating system controls 19.03 Performs servicing and maintenance of electric heating systems and controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	
20. Installs, services and maintains exit and emergency lighting systems 20.01 Installs exit and emergency lighting 20.02 Performs servicing and maintenance of exit and emergency lighting systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	

	 <b>LOW</b> <b>Understanding</b> <b>/ Experience</b>	 <b>MEDIUM</b> <b>Understanding</b> <b>/ Experience</b>	 <b>HIGH</b> <b>Understanding</b> <b>/ Experience</b>	Number of questions on the Red Seal exam	Based on your self-rating, how many of the questions do you think you will get correct?
21. Installs, services and maintains cathodic protection systems 21.01 Installs cathodic protection systems 21.02 Performs servicing and maintenance of cathodic protection systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	
Total number of questions for this section:				<b>30</b>	SUM OF YOUR EXPECTED CORRECT ANSWERS  <div style="background-color: #cccccc; height: 20px; width: 100%;"></div>

	 <b>LOW</b> Understanding / Experience	 <b>MEDIUM</b> Understanding / Experience	 <b>HIGH</b> Understanding / Experience	Number of questions on the Red Seal exam	Based on your self-rating, how many of the questions do you think you will get correct?
<b>D – Installs, services and maintains motors and control systems</b>					
22. Installs, services and maintains motor starters and controls 22.01 Installs motor starters 22.02 Performs servicing and maintenance of motor starters 22.03 Installs motor control devices 22.04 Performs servicing and maintenance of motor controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8	
23. Installs, services and maintains drives 23.01 Installs AC drives 23.02 Performs servicing and maintenance of AC drives 23.03 Installs DC drives 23.04 Performs servicing and maintenance of DC drives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	

	 <b>LOW</b> <b>Understanding</b> <b>/ Experience</b>	 <b>MEDIUM</b> <b>Understanding</b> <b>/ Experience</b>	 <b>HIGH</b> <b>Understanding</b> <b>/ Experience</b>	Number of questions on the Red Seal exam	Based on your self-rating, how many of the questions do you think you will get correct?
24. Installs, services and maintains motors 24.01 Installs single-phase motors 24.02 Performs servicing and maintenance of single-phase motors 24.03 Installs three-phase motors 24.04 Performs servicing and maintenance of three-phase motors 24.05 Installs DC motors 24.06 Performs servicing and maintenance of DC motors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	<input type="text"/>
25. Installs, programs, services and maintains automated control systems 25.01 Installs automated control systems 25.02 Performs servicing and maintenance of automated control systems 25.03 Programs and configures automated control systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	<input type="text"/>
Total number of questions for this section:				<b>21</b>	<b>SUM OF YOUR EXPECTED CORRECT ANSWERS</b> <input type="text"/>

	 <b>LOW</b> <b>Understanding</b> <b>/ Experience</b>	 <b>MEDIUM</b> <b>Understanding</b> <b>/ Experience</b>	 <b>HIGH</b> <b>Understanding</b> <b>/ Experience</b>	Number of questions on the Red Seal exam	Based on your self-rating, how many of the questions do you think you will get correct?
<b>E – Installs, services and maintains signalling and communication systems</b>					
26. Installs, services and maintains signalling systems 26.01 Installs fire alarm systems 26.02 Performs servicing and maintenance of fire alarm systems 26.03 Installs security and surveillance systems 26.04 Performs servicing and maintenance of security and surveillance systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	
27. Installs, services and maintains communication systems 27.01 Installs voice/data/video (VDV) and community antenna television (CATV) systems 27.02 Installs public address (PA) and intercom systems 27.03 Installs nurse call systems 27.04 Performs servicing and maintenance of communication systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	

	 <b>LOW</b> <b>Understanding</b> <b>/ Experience</b>	 <b>MEDIUM</b> <b>Understanding</b> <b>/ Experience</b>	 <b>HIGH</b> <b>Understanding</b> <b>/ Experience</b>	Number of questions on the Red Seal exam	Based on your self-rating, how many of the questions do you think you will get correct?
28. Installs, services and maintains integrated control systems 28.01 Installs building automation systems 28.02 Installs building control systems 28.03 Performs servicing and maintenance of integrated control systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	
Total number of questions for this section:				<b>10</b>	SUM OF YOUR EXPECTED CORRECT ANSWERS  <input style="width: 100px; height: 20px;" type="text"/>
Now, add up the totals you gave yourself for each section.				TOTAL NUMBER OF QUESTIONS  100	MY EXPECTED TOTAL  <input style="width: 100px; height: 20px;" type="text"/>

## **Interpreting your Self-Assessment**

What score did you give yourself?

Divide it by the number of questions to get a percentage

The passing mark for the Red Seal exam is 70%. If you rated yourself higher than that overall, you feel pretty confident that your experience and knowledge in the trade are good enough for a pass. However, remember that this self-assessment is just a guide. We still encourage you to develop a study plan and to consider the areas where you rated yourself as less confident.

If your overall score is less than 70%, you might have more work to do. Look more closely at your scores section by section. What are the areas where you have the most to gain?

Look over the Red Seal Exam Preparation Guide for more advice.