



RED SEAL EXAM

SELF-ASSESSMENT GUIDE

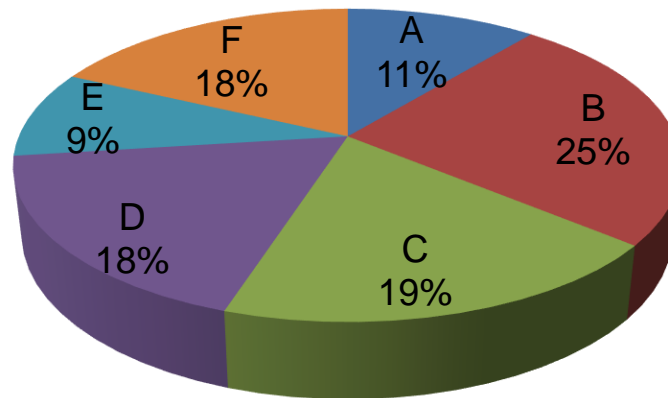
INDUSTRIAL ELECTRICIAN



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.



	Major Work Activity / Exam Section	Number of Questions out of 100
A	Performs Common Occupational Skills	11
B	Installs and Maintains Generating, Distribution and Service Systems	25
C	Installs and Maintains Wiring Systems	19
D	Installs and Maintains Rotating and Non-Rotating Equipment and Control Systems	18
E	Installs and Maintains Signalling and Communication Systems	9
F	Installs and Maintains Process Control Systems	18

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!

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




	 LOW Understanding / Experience	 MEDIUM Understanding / Experience	 HIGH 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?
A – Performs Common Occupational Skills					
Task A-1 Performs safety-related functions A-1.01 Maintains safe work environment A-1.02 Uses personal protective equipment (PPE) and safety equipment A-1.03 Performs lock-out and tag-out procedures A-1.04 Identifies environmental conditions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	<input type="text"/>
Task A-2 Uses tools and equipment A-2.01 Uses common and specialty tools and equipment A-2.02 Uses access equipment A-2.03 Uses rigging, hoisting and lifting equipment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	<input type="text"/>




	 LOW Understanding / Experience	 MEDIUM Understanding / Experience	 HIGH 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?
Task A-3 Organizes work A-3.01 Interprets plans, drawings and specifications A-3.02 Identifies hazardous locations A-3.03 Organizes materials and supplies A-3.04 Plans project tasks and procedures A-3.05 Prepares worksite A-3.06 Finalizes required documentation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	<input type="text"/>
Task A-4 Fabricates and installs support components A-4.01 Fabricates support structures A-4.02 Installs brackets, hangers and fasteners A-4.03 Installs seismic restraint systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="text"/>
Task A-5 Commissions and decommissions electrical systems A-5.01 Commissions systems A-5.02 Performs shutdown and startup procedures A-5.03 Decommissions systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	<input type="text"/>




	 LOW Understanding / Experience	 MEDIUM Understanding / Experience	 HIGH 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?
Task A-6 Uses communication and mentoring techniques A-6.01 Uses communication techniques A-6.02 Uses mentoring techniques	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	
Total number of questions for this section:				10	SUM OF YOUR EXPECTED CORRECT ANSWERS <div style="background-color: #cccccc; height: 20px; width: 100%;"></div>




	 LOW Understanding / Experience	 MEDIUM Understanding / Experience	 HIGH 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 – Installs and Maintains Generating, Distribution and Service Systems					
Task B-7 Installs and maintains consumer/supply services and metering equipment B-7.01 Installs single-phase consumer/supply services and metering equipment B-7.02 Maintains single-phase consumer/supply services and metering equipment B-7.03 Installs three-phase consumer/supply services and metering equipment B-7.04 Maintains three-phase consumer/supply services and metering equipment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	




	 LOW Understanding / Experience	 MEDIUM Understanding / Experience	 HIGH 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?
Task B-8 Installs and maintains protection devices B-8.01 Installs overcurrent protection devices B-8.02 Maintains overcurrent protection devices B-8.03 Installs ground fault, arc fault and surge protection devices B-8.04 Maintains ground fault, arc fault and surge protection devices B-8.05 Installs under and over voltage protection devices B-8.06 Maintains under and over voltage protection devices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	
Task B-9 Installs and maintains low voltage distribution systems B-9.01 Installs low voltage distribution equipment B-9.02 Maintains low voltage distribution equipment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	




	 LOW Understanding / Experience	 MEDIUM Understanding / Experience	 HIGH 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?
Task B-10 Installs and maintains power conditioning systems B-10.01 Installs power conditioning systems B-10.02 Maintains power conditioning systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	
Task B-11 Installs and maintains bonding, grounding and ground fault detection systems B-11.01 Installs grounding systems B-11.02 Maintains grounding systems B-11.03 Installs bonding systems B-11.04 Maintains bonding systems B-11.05 Installs ground fault detection systems B-11.06 Maintains ground fault detection systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	




	 LOW Understanding / Experience	 MEDIUM Understanding / Experience	 HIGH 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?
Task B-12 Installs and maintains power generating systems B-12.01 Installs alternating current (AC) generating systems B-12.02 Maintains AC generating systems B-12.03 Installs direct current (DC) generating systems B-12.04 Maintains DC generating systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	<input type="text"/>
Task B-13 Installs and maintains renewable energy generating and storage systems B-13.01 Installs renewable energy generating and storage systems B-13.02 Maintains renewable energy generating and storage systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	<input type="text"/>
Task B-14 Installs and maintains high voltage systems B-14.01 Installs high voltage systems B-14.02 Maintains high voltage systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	<input type="text"/>




	 LOW Understanding / Experience	 MEDIUM Understanding / Experience	 HIGH 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?
Task B-15 Installs and maintains transformers B-15.01 Installs extra-low voltage transformers B-15.02 Maintains extra-low voltage transformers B-15.03 Installs low voltage single-phase transformers B-15.04 Maintains low voltage single-phase transformers B-15.05 Installs low voltage three-phase transformers B-15.06 Maintains low voltage three-phase transformers B-15.07 Installs high voltage transformers B-15.08 Maintains high voltage transformers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	<input type="text"/>
Total number of questions for this section:				25	SUM OF YOUR EXPECTED CORRECT ANSWERS <input type="text"/>




	 LOW Understanding / Experience	 MEDIUM Understanding / Experience	 HIGH 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?
C – Installs and Maintains Wiring Systems					
Task C-16 Installs and maintains raceways, cables, conductors and enclosures C-16.01 Installs conductors and cables C-16.02 Maintains conductors and cables C-16.03 Installs conduit, tubing and fittings C-16.04 Installs raceways C-16.05 Installs boxes and enclosures C-16.06 Maintains conduit, tubing, fittings, raceways, boxes and enclosures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	<input type="text"/>
Task C-17 Installs and maintains branch circuitry and devices C-17.01 Installs luminaires C-17.02 Maintains luminaires C-17.03 Installs wiring devices C-17.04 Maintains wiring devices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5	<input type="text"/>




	 LOW Understanding / Experience	 MEDIUM Understanding / Experience	 HIGH 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?
Task C-18 Installs and maintains heating, ventilation and air-conditioning (HVAC) electrical components C-18.01 Connects power to HVAC systems and associated equipment C-18.02 Installs HVAC controls C-18.03 Maintains HVAC electrical components	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	
Task C-19 Installs and maintains electric heating systems and controls C-19.01 Installs electric heating systems and controls C-19.02 Maintains electric heating systems and controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	
Task C-20 Installs and maintains exit and emergency lighting systems C-20.01 Installs exit and emergency lighting systems C-20.02 Maintains exit and emergency lighting systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	




	 LOW Understanding / Experience	 MEDIUM Understanding / Experience	 HIGH 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?
Task C-21 Installs and maintains cathodic protection systems C-21.01 Installs cathodic protection systems C-21.02 Maintains cathodic protection systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	
Total number of questions for this section:				19	SUM OF YOUR EXPECTED CORRECT ANSWERS <div style="background-color: #cccccc; height: 20px; width: 100%;"></div>




	 LOW Understanding / Experience	 MEDIUM Understanding / Experience	 HIGH 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?
D – Installs and Maintains Rotating and non Rotating Equipment and Control Systems					
Task D-22 Installs and maintains motor starters and control devices D-22.01 Installs motor starters D-22.02 Maintains motor starters D-22.03 Installs motor control devices D-22.04 Maintains motor control devices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	
Task D-23 Installs and maintains drives D-23.01 Installs AC drives D-23.02 Maintains AC drives D-23.03 Installs DC drives D-23.04 Maintains DC drives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5	
Task D-24 Installs and maintains non-rotating equipment and associated controls D-24.01 Installs non-rotating equipment and associated controls D-24.02 Maintains non-rotating equipment and associated controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	

	 LOW Understanding / Experience	 MEDIUM Understanding / Experience	 HIGH 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?
Task D-25 Installs and maintains motors D-25.01 Installs single-phase motors D-25.02 Maintains single-phase motors D-25.03 Installs three-phase motors D-25.04 Maintains three-phase motors D-25.05 Installs DC motors D-25.06 Maintains DC motors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5	<input type="text"/>
Total number of questions for this section:				18	SUM OF YOUR EXPECTED CORRECT ANSWERS <input type="text"/>

	 LOW Understanding / Experience	 MEDIUM Understanding / Experience	 HIGH 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?
E – Installs and Maintains Signalling and Communication Systems					
Task E-26 Installs and maintains signalling systems E-26.01 Installs fire alarm systems E-26.02 Maintains fire alarm systems E-26.03 Installs security and surveillance systems E-26.04 Maintains security and surveillance systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	
Task E-27 Installs and maintains communication systems E-27.01 Installs communication systems E-27.02 Maintains communication systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	

	 LOW Understanding / Experience	 MEDIUM Understanding / Experience	 HIGH 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?
Task E-28 Installs and maintains building automation systems E-28.01 Installs building automation systems E-28.02 Maintains building automation systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	
Total number of questions for this section:				9	SUM OF YOUR EXPECTED CORRECT ANSWERS <div style="background-color: #cccccc; height: 20px; width: 100%;"></div>

	 LOW Understanding / Experience	 MEDIUM Understanding / Experience	 HIGH 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?
F – Installs and Maintains Process Control Systems					
Task F-29 Installs and maintains input/output (I/O) devices F-29.01 Installs discrete input/output (I/O) devices F-29.02 Maintains discrete input/output (I/O) devices F-29.03 Installs analog input/output (I/O) devices F-29.04 Maintains analog input/output (I/O) devices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8	
Task F-30 Installs, programs and maintains automated control systems F-30.01 Installs automated control systems F-30.02 Maintains automated control systems F-30.03 Programs automated control systems F-30.04 Optimizes system performance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	

	 LOW Understanding / Experience	 MEDIUM Understanding / Experience	 HIGH 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?
Task F-31 Installs and maintains pneumatic and hydraulic control systems F-31.01 Installs pneumatic control systems F-31.02 Maintains pneumatic control systems F-31.03 Installs hydraulic control systems F-31.04 Maintains hydraulic control systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	
Total number of questions for this section:				19	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.