

PROGRAM UPDATE

Issued: January 31, 2024

Trade: CONSTRUCTION ELECTRICIAN

To: SkilledTradesBC Training Providers
Articulation Chair
System Liaison Person
Youth Train in Trades School Districts

Subject: **CONSTRUCTION ELECTRICIAN Interprovincial Exams aligned to the 2021 RSOS will be implemented**

From: SkilledTradesBC Program Standards

Effective Date: April 1, 2024

Summary: Interprovincial (IP) exams aligned to the 2021 **Construction Electrician** Red Seal Occupational Standard (RSOS) will be implemented by SkilledTradesBC as of April 1, 2024. Candidates who write a **Construction Electrician** IP exam on or after April 1, 2024 will receive an exam aligned to the 2021 RSOS. Candidates will be provided with the 2021 Canadian Electrical Code book.

IP Table: The IP table can be found at <https://skilledtradesbc.ca/electrician-construction>



Construction Electrician

Inter-provincial examinations – Tasks and related number of questions
Number of questions on each exam - 100

Based on 2021 RSOS

Major Work Activity	Task	Number of Questions
A – PERFORMS COMMON OCCUPATIONAL SKILLS	Task 1 - Performs safety-related functions	2
	Task 2 - Uses tools and equipment	2
	Task 3 - Organizes work	2
	Task 4 - Fabricates and installs support components	2
	Task 5 - Commissions and decommissions electrical systems	2
	Task 6 - Uses communication and mentoring techniques	1
	11	
B – INSTALLS, SERVICES AND MAINTAINS GENERATING, DISTRIBUTION AND SERVICE SYSTEMS	Task 7 - Installs, services and maintains consumer/supply services and metering equipment	4
	Task 8 - Installs, services and maintains protection devices	4
	Task 9 - Installs, services and maintains power distribution equipment	4
	Task 10 - Installs, services and maintains power conditioning, uninterruptible power supply (UPS) and surge suppression systems	2
	Task 11 - Installs, services and maintains bonding and grounding, and ground fault protection and detection systems	4
	Task 12 - Installs, services and maintains power generation and conversion systems	2
	Task 13 - Installs, services and maintains renewable energy generating and storage systems	2
	Task 14 - Installs, services and maintains high-voltage systems	2
	Task 15 - Installs, services and maintains transformers	4
	28	
C – INSTALLS, SERVICES AND MAINTAINS WIRING SYSTEMS	Task 16 - Installs, services and maintains raceways, conductors, cables and enclosures	9
	Task 17 - Installs, services and maintains branch circuitry and devices	9
	Task 18 - Installs, services and maintains heating, ventilating and air-conditioning (HVAC) systems	4
	Task 19 - Installs, services and maintains electric heating systems	4
	Task 20 - Installs, services and maintains exit and emergency lighting systems	3
	Task 21 - Installs, services and maintains cathodic protection systems	1
	30	
D – INSTALLS, SERVICES AND MAINTAINS MOTORS AND CONTROL SYSTEMS	Task 22 - Installs, services and maintains motor starters and controls	8
	Task 23 - Installs, services and maintains drives	4
	Task 24 - Installs, services and maintains motors	6
	Task 25 - Installs, programs, services and maintains automated control systems	3
	21	
E - INSTALLS, SERVICES AND MAINTAINS SIGNALLING AND COMMUNICATION SYSTEMS	Task 26 - Installs, services and maintains signalling systems	4
	Task 27 - Installs, services and maintains communication systems	3
	Task 28 - Installs, services and maintains integrated control systems	3
	10	
		100

Details: The Interprovincial Red Seal exam is a summative assessment intended to test an apprentice's trade knowledge gained through both on-the-job experience and technical training. Exam questions are developed by certified trade worker subject matter experts (SMEs) as well as instructors and are intended to reflect trade practices in Canada. The exams are edited, translated, and peer reviewed by additional SMEs before they are implemented. The exams are developed to test the sub-tasks of the most recent Red Seal Occupational Standard.

The **Construction Electrician** 2021 RSOS can be [downloaded here](#).

A comparative analysis of the sub-task changes from the previous standard can be found on the SkilledTradesBC trade page (<https://skilledtradesbc.ca/electrician-construction>).

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