

CONSTRUCTION ELECTRICIAN

EMPLOYER DECLARATION OF WORK EXPERIENCE

This form is used to declare work experience for periods of employment and must be completed by a direct supervisor of the applicant, who will be contacted by SkilledTradesBC.

Note: An Employer Declaration of Work Experience form must be completed for each period of employment.

This form is not to be used for periods of self-employment. For more information, see Instructions for Certification.

To qualify to challenge certification in this trade, individuals must have:

- worked a minimum of **9,000 hours** performing the tasks listed in Section D, and
- experience performing at least **70%** of the job tasks listed in Section D

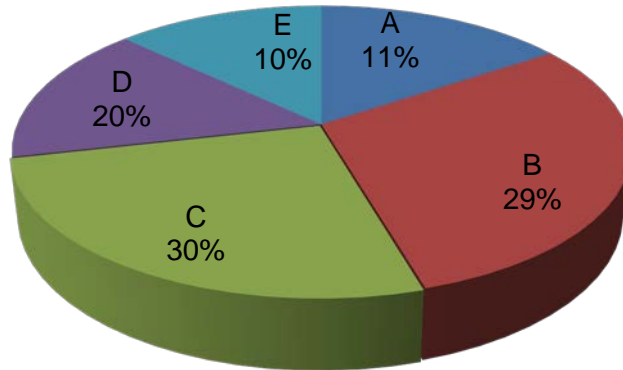
Holders of a **Certificate of Qualification in Industrial Electrician** will be eligible to challenge this certification by documenting **3,000 hours** of directly related work experience.

Holders of **military certificate in Electrical Distribution Technician MT#302 / MT#642, QL5 or higher** with **6,000** documented hours of directly related experience working in the occupation will be eligible to challenge this certification.

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	Exam Weightage	Number of Questions in Exam
A	Performs common occupational skills	11%	11
B	Installs, services and maintains generating, distribution and service systems	29%	29
C	Installs, services and maintains wiring systems	30%	30
D	Installs, services and maintains motors and control systems	20%	20
E	Installs, services and maintains signalling and communication systems	10%	10

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D. Supervisor Declaration of Job Task Performance of Applicant

By checking “Yes” or “No” in the Declaration Response column, indicate whether you, as the direct supervisor of the applicant, have personally witnessed the applicant performing the job tasks listed.

JOB TASKS	Number of questions on the Red Seal exam	SUPERVISOR DECLARATION RESPONSE
A – PERFORMS COMMON OCCUPATIONAL SKILLS (11%)		
Task-1 Performs safety-related functions - Uses personal protective equipment (PPE) and safety equipment. - Maintains safe work environment. - Performs lock-out and tag-out procedures.	3	<input type="checkbox"/> Yes <input type="checkbox"/> No
Task-2 Uses tools and equipment - Uses common and specialty tools and equipment. - Uses access equipment. - Uses rigging, hoisting and lifting equipment.	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
Task-3 Organizes work - Interprets plans, drawings and specifications. - Organizes materials and supplies. - Plans project tasks and procedures. - Prepares worksite. - Finalizes required documentation.	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
Task-4 Fabricates and installs support components - Fabricates support structures. - Installs brackets, hangers and fasteners. - Installs seismic restraint systems.	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
Task-5 Commissions and decommissions electrical systems - Performs startup and shutdown procedures. - Performs commissioning and decommissioning of systems.	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
B – INSTALLS, SERVICES AND MAINTAINS GENERATING, DISTRIBUTION AND SERVICE SYSTEMS (29%)		

Enter the supervisor and applicant names (repeat on every page of this form)

Supervisor First and Last Name:	Applicant First and Last Name:
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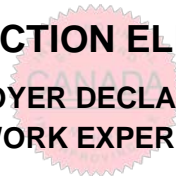
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JOB TASKS	Number of questions on the Red Seal exam	SUPERVISOR DECLARATION RESPONSE
<p>Task-6 Installs, services and maintains consumer/supply services and metering equipment</p> <ul style="list-style-type: none"> - Installs single-phase consumer/supply services and metering equipment. - Installs three-phase consumer/supply services and metering equipment. - Performs servicing and maintenance of single-phase services and metering equipment. - Performs servicing and maintenance of three-phase services and metering equipment. 	5	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Task-7 Installs, services and maintains protection devices</p> <ul style="list-style-type: none"> - Installs overcurrent protection devices. - Installs ground fault, arc fault and surge protection devices. - Performs servicing and maintenance of protection devices. 	5	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Task-8 Installs, services and maintains distribution equipment</p> <ul style="list-style-type: none"> - Installs power distribution equipment. - Performs servicing and maintenance of power distribution equipment. 	4	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Task-9 Installs, services and maintains power conditioning, uninterruptible power supply (UPS) and surge suppression systems</p> <ul style="list-style-type: none"> - Installs power conditioning, UPS and surge suppression systems. - Performs servicing and maintenance of power conditioning, UPS and surge suppression systems. 	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Task-10 Installs, services and maintains bonding and grounding protection systems</p> <ul style="list-style-type: none"> - Installs grounding and bonding systems. - Installs ground fault systems. - Installs lightning protection systems. - Performs servicing and maintenance of bonding and grounding systems. 	5	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Task-11 Installs, services and maintains power generation systems</p> <ul style="list-style-type: none"> - Installs AC (alternating current) generating systems. - Performs servicing and maintenance of AC generating systems. - Installs DC (direct current) generating systems. 	2	<input type="checkbox"/> Yes <input type="checkbox"/> No

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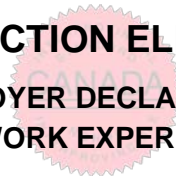
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- Performs servicing and maintenance of DC generating systems.		
Task-12 Installs, services and maintains renewable energy systems - Installs renewable energy systems. - Performs servicing and maintenance of renewable energy systems.	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
Task-13 Installs, services and maintains high voltage systems - Installs high voltage equipment. - Installs high voltage cables. - Performs servicing and maintenance of high voltage systems.	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
Task-14 Installs, services and maintains transformers - Installs extra-low voltage transformers. - Installs low-voltage single-phase transformers. - Installs low-voltage three-phase transformers. - Installs high voltage transformers. - Performs servicing and maintenance of transformers.	4	<input type="checkbox"/> Yes <input type="checkbox"/> No
C – INSTALLS, SERVICES AND MAINTAINS WIRING SYSTEMS (30%)		
Task-15 Installs, services and maintains raceways, cables and enclosures - Installs conductors and cables. - Installs conduit, tubing and fittings. - Installs raceways. - Installs boxes and enclosures. - Performs servicing and maintenance of raceways, cables and enclosures.	9	<input type="checkbox"/> Yes <input type="checkbox"/> No
Task-16 Installs, services and maintains branch circuitry - Installs luminaires. - Installs wiring devices. - Installs lighting controls. - Installs lighting standards. - Performs servicing of branch circuitry. - Installs, services and maintains airport runway lighting systems. - Installs, services and maintains traffic signal lights and controls.	8	<input type="checkbox"/> Yes <input type="checkbox"/> No

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JOB TASKS	Number of questions on the Red Seal exam	SUPERVISOR DECLARATION RESPONSE
Task-17 Installs, services and maintains heating, ventilating and air-conditioning (HVAC) systems - Connects HVAC systems. - Installs HVAC controls. - Performs servicing and maintenance of HVAC systems and controls.	4	<input type="checkbox"/> Yes <input type="checkbox"/> No
Task-18 Installs, services and maintains electric heating systems - Installs electric heating systems. - Installs electric heating system controls. - Performs servicing and maintenance of electric heating systems and controls.	5	<input type="checkbox"/> Yes <input type="checkbox"/> No
Task-19 Installs, services and maintains exit and emergency lighting systems - Installs exit and emergency lighting.	3	<input type="checkbox"/> Yes <input type="checkbox"/> No
Task-20 Installs, services and maintains cathodic protection systems - Installs cathodic protection systems. - Performs servicing and maintenance of cathodic protection systems.	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
D – INSTALLS, SERVICES AND MAINTAINS MOTORS AND CONTROL SYSTEMS (20%)		
Task-21 Installs, services and maintains motor starters and controls - Installs motor starters. - Performs servicing and maintenance of motor starters. - Installs motor controls. - Performs servicing and maintenance of motor controls.	8	<input type="checkbox"/> Yes <input type="checkbox"/> No
Task-22 Installs, services and maintains drives - Installs AC drives. - Performs servicing and maintenance of AC drives. - Installs DC drives. - Performs servicing and maintenance of DC drives.	3	<input type="checkbox"/> Yes <input type="checkbox"/> No
Task-23 Installs, services and maintains motors - Installs single-phase motors.	6	<input type="checkbox"/> Yes <input type="checkbox"/> No

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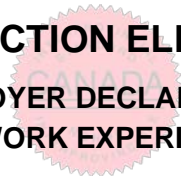
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JOB TASKS	Number of questions on the Red Seal exam	SUPERVISOR DECLARATION RESPONSE
<ul style="list-style-type: none"> - Performs servicing and maintenance of single-phase motors. - Installs three-phase motors. - Performs servicing and maintenance of three-phase motors. - Installs DC motors. - Performs servicing and maintenance of DC motors. 		
<p>Task-24 Installs, programs, services and maintains automated control systems</p> <ul style="list-style-type: none"> - Installs automated control systems. - Performs servicing and maintenance of automated control systems. - Programs and configures automated control systems. 	3	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>E – INSTALLS, SERVICES AND MAINTAINS SIGNALLING AND COMMUNICATION SYSTEMS (10%)</p>		
<p>Task-25 Installs, services and maintains signaling systems</p> <ul style="list-style-type: none"> - Installs fire alarm systems. - Performs servicing and maintenance of fire alarm systems. - Installs security and surveillance systems. - Performs servicing and maintenance of security and surveillance systems. 	4	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Task-26 Installs, services and maintains communication systems</p> <ul style="list-style-type: none"> - Installs voice/data/video (VDV) and community antenna television (CATV) systems. - Installs public address (PA) and intercom systems. - Installs nurse call systems. - Performs servicing and maintenance of communication systems. 	3	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Task-27 Installs, services and maintains integrated control systems</p> <ul style="list-style-type: none"> - Installs building automation systems. - Installs building control systems. - Performs servicing and maintenance of integrated control systems. 	3	<input type="checkbox"/> Yes <input type="checkbox"/> No

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E. Supervisor Signature

I certify that the information I, as the current or former direct supervisor of the applicant, have provided is accurate. (Note: Collection and protection of personal information on this form is in accordance with the provisions of the Freedom of Information and Protection of Privacy Act.)

Supervisor name (Please Print):	Supervisor Signature:	Date Signed: (MM/DD/YYYY)
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