

# INDUSTRIAL ELECTRICIAN

## EMPLOYER DECLARATION OF WORK EXPERIENCE

SkilledTradesBC Customer Service  
 800 – 8100 Granville Ave  
 Richmond, BC V6Y 3T6  
 Tel: 778-328-8700  
 Fax: 778-328-8701  
 Toll Free: 1-866-660-6011  
 customerservice@skilledtradesbc.ca

*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

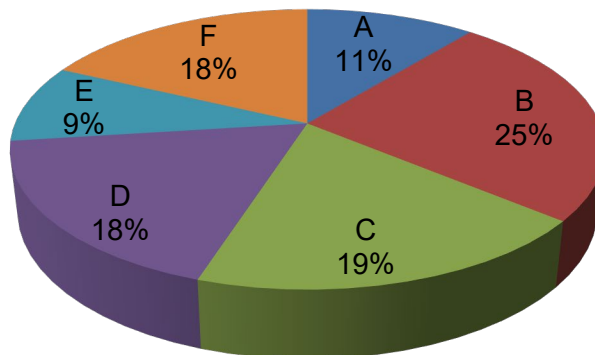
Holders of a **Certificate of Qualification in Construction Electrician** will be eligible to challenge this certification by documenting **3,000** hours of directly related work experience.

Holders of a **military certificate in Electrical Technician MT #125 / Marine Electrician MT #331/332, QL5 or higher** 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	10%	10
B	Installs and Maintains Generating, Distribution and Service Systems	25%	25
C	Installs and Maintains Wiring Systems	19%	19
D	Installs and Maintains Rotating and Non-Rotating Equipment and Control Systems	18%	18
E	Installs and Maintains Signalling and Communication Systems	9%	9
F	Installs and Maintains Process Control Systems	19%	19

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**A. Applicant Name**

Enter the name of the individual for whom this form is being completed.

Legal First Name:	Legal Middle Name(s):	Legal Last Name:

**B. Employment Information of Applicant**

Enter the business information for the applicant’s period of employment declared for this trade.

Name of Organization/Employer/Business:		
Mailing Address:		City:
Province/ State:	Country:	Postal Code/ Zip Code:
Business Phone Number: ( )	Website:	

Enter the dates and number of hours for this period of employment.

Dates of Applicant’s Employment (MM/DD/YYYY):	Total Number Hours of <b>Industrial Electrician</b> Experience Accumulated in that Period:
From: To:	
Job Title of Applicant:	

**C. Supervisor Contact Information**

Enter the name and contact information for the person who directly supervised the applicant during this employment period. Ensure the information given is current as the application will be denied if this person cannot be contacted by SkilledTradesBC.

First and Last Name of Applicant’s Direct Supervisor:	Supervisor Position or Title:
Supervisor’s Phone Number: ( )	Supervisor E-Mail Address:
Language(s) that the employer/supervisor can communicate: (check all that apply)	
<input type="checkbox"/> English <input type="checkbox"/> Other (please specify): _____	

**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.

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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JOB TASKS	Number of questions on the Red Seal exam	SUPERVISOR DECLARATION RESPONSE
<b>A - PERFORMS COMMON OCCUPATIONAL SKILLS (11%)</b>		
<b>Task-1 Performs safety-related functions</b> - Maintains safe work environment. - Uses personal protective equipment (PPE) and safety equipment. - Performs lock-out and tag-out procedures. - Identifies environmental conditions.	3	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Task-2 Uses tools and equipment</b> - 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
<b>Task-3 Organizes work</b> - Interprets plans, drawings and specifications. - Identifies hazardous locations. - Organizes materials and supplies. - Plans project tasks and procedures. - Prepares worksite. - Finalizes required documentation.	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Task-4 Fabricates and installs support components</b> - Fabricates support structures. - Installs brackets, hangers and fasteners. - Installs seismic restraint systems.	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Task-5 Commissions and decommissions electrical systems</b> - Commissions systems. - Performs shutdown and startup procedures. - Decommissions systems.	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Task-6 Uses communication and mentoring techniques</b> -Uses communication techniques.	0	<input type="checkbox"/> Yes <input type="checkbox"/> No

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- Uses mentoring techniques.		
<b>B – INSTALLS AND MAINTAINS GENERATING, DISTRIBUTION AND SERVICE SYSTEMS (25%)</b>		
<b>Task-7 Installs and maintains consumer/supply services and metering equipment</b> - Installs single-phase consumer/supply services and metering equipment. - Maintains single-phase consumer/supply services and metering equipment. - Installs three-phase consumer/supply services and metering equipment. - Maintains three-phase consumer/supply services and metering equipment.	3	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Task-8 Installs and maintains protection devices</b> - Installs overcurrent protection devices. - Maintains overcurrent protection devices. - Installs ground fault, arc fault and surge protection devices. - Maintains ground fault, arc fault and surge protection devices. - Installs under and over voltage protection devices. - Maintains under and over voltage protection devices.	4	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Task-9 Installs and maintains low voltage distribution systems</b> - Installs low voltage distribution equipment. - Maintains low voltage distribution equipment.	3	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Task-10 Installs and maintains power conditioning systems</b> - Installs power conditioning systems. - Maintains power conditioning systems.	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Task-11 Installs and maintains bonding, grounding and ground fault detection systems</b> - Installs grounding systems. - Maintains grounding systems. - Installs bonding systems. - Maintains bonding systems. - Installs ground fault detection systems. - Maintains ground fault detection systems.	4	<input type="checkbox"/> Yes <input type="checkbox"/> No

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<b>Task-12 Installs and maintains power generating systems</b> - Installs alternating current (AC) generating systems. - Maintains AC generating systems. - Installs direct current (DC) generating systems. - Maintains DC generating systems.	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Task-13 Installs and maintains renewable energy generating and storage systems</b> - Installs renewable energy generating and storage systems. - Maintains renewable energy generating and storage systems.	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Task-14 Installs and maintains high voltage systems</b> - Installs high voltage systems. - Maintains high voltage systems.	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Task-15 Installs and maintains transformers</b> - Installs extra-low voltage transformers. - Maintains extra-low voltage transformers. - Installs low voltage single-phase transformers. - Maintains low voltage single-phase transformers. - Installs low voltage three-phase transformers. - Maintains low voltage three-phase transformers. - Installs high voltage transformers. - Maintains high voltage transformers.	3	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>C – INSTALLS AND MAINTAINS WIRING SYSTEMS (19%)</b>		
<b>Task-16 Installs and maintains raceways, cables, conductors and enclosures</b> - Installs conductors and cables. - Maintains conductors and cables. - Installs conduit, tubing and fittings. - Installs raceways. - Installs boxes and enclosures. - Maintains conduit, tubing, fittings, raceways, boxes and enclosures.	6	<input type="checkbox"/> Yes <input type="checkbox"/> No

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<b>Task-17 Installs and maintains branch circuitry and devices</b> - Installs luminaires. - Maintains luminaires. - Installs wiring devices. - Maintains wiring devices.	5	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Task-18 Installs and maintains heating, ventilation and air-conditioning (HVAC) electrical components</b> - Connects power to HVAC systems and associated equipment. - Installs HVAC controls. - Maintains HVAC electrical components.	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Task-19 Installs and maintains electric heating systems and controls</b> - Installs electric heating systems and controls. - Maintains electric heating systems and controls.	3	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Task-20 Installs and maintains exit and emergency lighting systems</b> - Installs exit and emergency lighting systems. - Maintains exit and emergency lighting systems.	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Task-21 Installs and maintains cathodic protection systems</b> - Installs cathodic protection systems. - Maintains cathodic protection systems.	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>D – INSTALLS AND MAINTAINS ROTATING AND NON-ROTATING EQUIPMENT AND CONTROL SYSTEMS (18%)</b>		
<b>Task-22 Installs and maintains motor starters and control devices</b> - Installs motor starters. - Maintains motor starters. - Installs motor control devices. - Maintains motor control devices.	6	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Task-23 Installs and maintains drives</b> - Installs AC drives.	5	<input type="checkbox"/> Yes <input type="checkbox"/> No

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<ul style="list-style-type: none"> <li>- Maintains AC drives.</li> <li>- Installs DC drives.</li> <li>- Maintains DC drives.</li> </ul>		
<p><b>Task-24 Installs and maintains non-rotating equipment and associated controls</b></p> <ul style="list-style-type: none"> <li>- Installs non-rotating equipment and associated controls.</li> <li>- Maintains non-rotating equipment and associated controls.</li> </ul>	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><b>Task-25 Installs and maintains motors</b></p> <ul style="list-style-type: none"> <li>- Installs single-phase motors.</li> <li>- Maintains single-phase motors.</li> <li>- Installs three-phase motors.</li> <li>- Maintains three-phase motors.</li> <li>- Installs DC motors.</li> <li>- Maintains DC motors.</li> </ul>	5	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>E – INSTALLS AND MAINTAINS SIGNALLING AND COMMUNICATION SYSTEMS (9%)</b>		
<p><b>Task-26 Installs and maintains signalling systems</b></p> <ul style="list-style-type: none"> <li>- Installs fire alarm systems.</li> <li>- Maintains fire alarm systems.</li> <li>- Installs security and surveillance systems.</li> <li>- Maintains security and surveillance systems.</li> </ul>	3	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><b>Task-27 Installs and maintains communication systems</b></p> <ul style="list-style-type: none"> <li>- Installs communication systems.</li> <li>- Maintains communication systems.</li> </ul>	3	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><b>Task-28 Installs and maintains building automation systems</b></p> <ul style="list-style-type: none"> <li>- Installs building automation systems.</li> <li>- Maintains building automation systems.</li> </ul>	3	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>F – INSTALLS AND MAINTAINS PROCESS CONTROL SYSTEMS (19%)</b>		
<p><b>Task-29 Installs and maintains input/output (I/O) devices</b></p> <ul style="list-style-type: none"> <li>- Installs discrete input/output (I/O) devices.</li> <li>- Maintains discrete input/output (I/O) devices.</li> </ul>	8	<input type="checkbox"/> Yes <input type="checkbox"/> No

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<ul style="list-style-type: none"> <li>- Installs analog input/output (I/O) devices.</li> <li>- Maintains analog input/output (I/O) devices.</li> </ul>		
<p><b>Task-30 Installs, programs and maintains automated control systems</b></p> <ul style="list-style-type: none"> <li>- Installs automated control systems.</li> <li>- Maintains automated control systems.</li> <li>- Programs automated control systems.</li> <li>- Optimizes system performance.</li> </ul>	7	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><b>Task-31 Installs and maintains pneumatic and hydraulic control systems</b></p> <ul style="list-style-type: none"> <li>- Installs pneumatic control systems.</li> <li>- Maintains pneumatic control systems.</li> <li>- Installs hydraulic control systems.</li> <li>- Maintains hydraulic control systems.</li> </ul>	4	<input type="checkbox"/> Yes <input type="checkbox"/> No

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

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