

## **MARINE ELECTRICIAN (ENDORSEMENT ON CONSTRUCTION ELECTRICIAN OR INDUSTRIAL ELECTRICIAN COFQ WITH RED SEAL ENDORSEMENT)**

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### **Occupation Description**

A Marine Electrician understands electrical installation and maintenance of electrical equipment in a marine environment and is responsible for the safe operation and distribution of AC and DC electrical power to the various ship systems. Marine electricians apply and install transits, cabling and terminations, interpret marine electrical drawings, interpret and apply marine codes and regulations, use test equipment for troubleshooting ship systems such as main and auxiliary power generation, propulsion, navigational lighting, domestic lighting, hydraulic, pneumatic, communication and alarm, and use maintenance management systems.

For detailed information on the scope of knowledge and skills taught and assessed in this program refer to the Program Outline, available on the SkilledTradesBC website.

Marine Electrician is an endorsement on either the Construction Electrician or Industrial Electrician Red Seal Endorsement. For more information about Construction Electrician or Industrial Electrician, please refer to the trade pages, available on the SkilledTradesBC website.

### **Pathways to Certification**

In BC, an individual who is already a certified Construction Electrician or Industrial Electrician can obtain a Marine Electrician Endorsement by completing the Marine Electrician program or by challenging the certification. Apprenticeship programs are for individuals who have an employer to sponsor them and challenge programs are for individuals who have extensive experience working in the occupation and wish to challenge the certification.

### **Prerequisite Credential**

The following credential is **required** prior to enrolment in the technical training for this occupation. It will be verified by the training provider upon enrolment.

- Construction Electrician Certificate of Qualification  
OR
- Industrial Electrician Certificate of Qualification

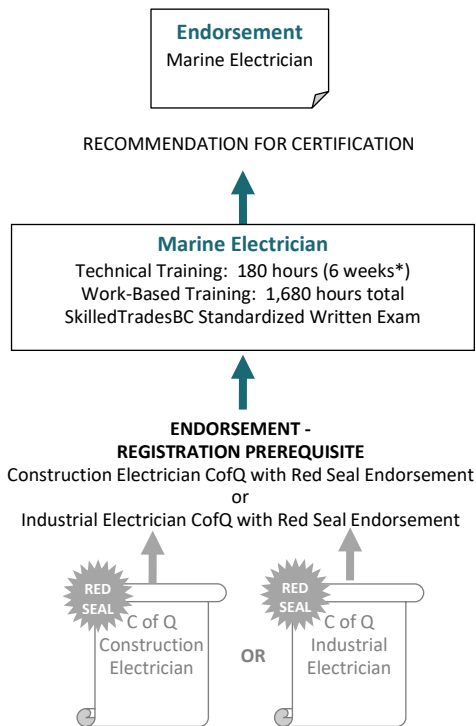
### **SkilledTradesBC Registration**

Individuals who wish to begin an apprenticeship in this program must register with SkilledTradesBC along with their sponsor. Application forms for all programs are available from the SkilledTradesBC website. Online registration is also available for most programs through the SkilledTradesBC website.

Those who wish to challenge the Marine Electrician Endorsement must complete the Marine Electrician Endorsement Challenge Application and submit it to SkilledTradesBC. Challenge applications are assessed for proof of workplace hours and scope of experience prior to acceptance of the individual into the Challenge pathway.

**Marine Electrician Post Certification Pathway**

This graphic provides an overview of the Marine Electrician post certification endorsement.



**CROSS-PROGRAM CREDITS**

*Individuals who hold the credentials listed below are entitled to receive partial credit toward the completion requirements of this program*

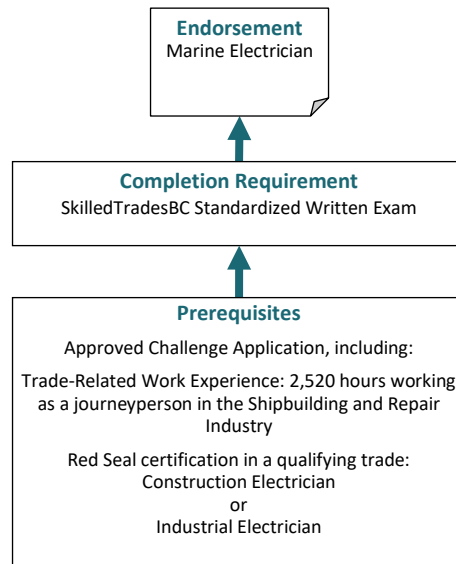
None

**Marine Electrician Endorsement Program Standards**

<b>Credentials Awarded</b>	<ul style="list-style-type: none"> <li>▪ A Marine Electrician Endorsement will be awarded and included on the individual's original Construction Electrician or Industrial Electrician Certificate of Qualification</li> </ul>										
<b>SkilledTradesBC Registration Prerequisites</b>	<ul style="list-style-type: none"> <li>▪ Agreement signed by the employer to sponsor the apprentice</li> <li>▪ Red Seal certification in a qualifying trade:               <ul style="list-style-type: none"> <li>○ Construction Electrician</li> <li>Or</li> <li>○ Industrial Electrician</li> </ul> </li> </ul>										
<b>Completion Requirements</b>	<p>Certification as a Marine Electrician is awarded upon successful completion of:</p> <table border="1"> <thead> <tr> <th><b>Requirement</b></th> <th><b>Level of Achievement Required</b></th> </tr> </thead> <tbody> <tr> <td>Technical Training</td> <td>           Minimum 70% in each level of technical training:           <ul style="list-style-type: none"> <li>▪ 180 hours</li> </ul> </td> </tr> <tr> <td>SkilledTradesBC Standardized Written Exam</td> <td> <ul style="list-style-type: none"> <li>▪ Minimum 70%</li> </ul> </td> </tr> <tr> <td>Work-Based Training</td> <td> <ul style="list-style-type: none"> <li>▪ 1,680 hours</li> </ul> </td> </tr> <tr> <td>Recommendation for Certification</td> <td> <ul style="list-style-type: none"> <li>▪ Recommendation for certification signed by the Sponsor and an individual holding credentials eligible for sign-off authority</li> </ul> </td> </tr> </tbody> </table>	<b>Requirement</b>	<b>Level of Achievement Required</b>	Technical Training	Minimum 70% in each level of technical training: <ul style="list-style-type: none"> <li>▪ 180 hours</li> </ul>	SkilledTradesBC Standardized Written Exam	<ul style="list-style-type: none"> <li>▪ Minimum 70%</li> </ul>	Work-Based Training	<ul style="list-style-type: none"> <li>▪ 1,680 hours</li> </ul>	Recommendation for Certification	<ul style="list-style-type: none"> <li>▪ Recommendation for certification signed by the Sponsor and an individual holding credentials eligible for sign-off authority</li> </ul>
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<b>Program Duration</b>	<p>Duration varies depending on how training is delivered, but the program generally takes one year to complete.</p> <p>The technical training requirement is typically met through block-release training (full-time, at school) delivered by a SkilledTradesBC-approved training provider. It can also be met through approved alternative training models (e.g., distance education, online, part-time) and/or level challenge where these options are available.</p>										
<b>Sign-off Authority</b>	<p>Credentials eligible to sign-off on the Recommendation for Certification:</p> <ul style="list-style-type: none"> <li>▪ Construction Electrician – Certificate of Qualification with Red Seal endorsement</li> <li>▪ Industrial Electrician – Certificate of Qualification with Red Seal endorsement</li> <li>▪ Marine Electrician Endorsement</li> </ul>										
<b>Challenging a Level</b>	<p>The following levels of technical training can be challenged for advanced placement in this program</p> <ul style="list-style-type: none"> <li>▪ None</li> </ul>										
<b>Cross-Program Credits</b>	<p>Individuals who hold the credentials listed below are entitled to receive partial credit toward the completion requirements of this program</p> <ul style="list-style-type: none"> <li>▪ None</li> </ul>										

**Marine Electrician Endorsement Post Certification Challenge Pathway**

This graphic provides an overview of the Marine Electrician challenge pathway.



**Challenge Program Standards – Marine Electrician Endorsement**

<b>Credentials Awarded</b>	<ul style="list-style-type: none"> <li>A Marine Electrician Endorsement will be awarded and included on the individual’s original Construction Electrician or Industrial Electrician Certificate of Qualification</li> </ul>				
<b>SkilledTradesBC Registration Prerequisites</b>	<p>An approved Challenge Application, which includes:</p> <ul style="list-style-type: none"> <li>2,520 documented hours of directly related experience working as a journeyperson in the Shipbuilding and Repair Industry</li> <li>Red Seal certification in a qualifying trade:               <ul style="list-style-type: none"> <li>Construction Electrician OR</li> <li>Industrial Electrician</li> </ul> </li> </ul>				
<b>Credit for Prior Learning</b>	<p>Individuals who hold the credentials listed below are considered to have met, or partially met, the prerequisites for challenging this program:</p> <ul style="list-style-type: none"> <li>None</li> </ul>				
<b>Completion Requirements</b>	<p>Certification as a Marine Electrician is awarded upon successful completion of:</p> <table border="1"> <thead> <tr> <th>Requirement</th> <th>Level of Achievement Required</th> </tr> </thead> <tbody> <tr> <td>SkilledTradesBC Standardized Written Exam</td> <td> <ul style="list-style-type: none"> <li>Minimum 70%</li> </ul> </td> </tr> </tbody> </table>	Requirement	Level of Achievement Required	SkilledTradesBC Standardized Written Exam	<ul style="list-style-type: none"> <li>Minimum 70%</li> </ul>
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**Supporting Documents**

Marine Electrician Program Outline (2014) – Defines the full scope of knowledge and skills required to competently perform the occupation in BC. Available from the SkilledTradesBC website.

**Contacts**

SkilledTradesBC manages BC's industry training and apprenticeship programs. Contact SkilledTradesBC Customer service if you have any questions regarding registration, examinations or certification for this program.

Telephone:	778-328-8700	Fax:	778-328-8701
Toll Free (within BC):	1-866-660-6011	Email:	<a href="mailto:customerservice@skilledtradesbc.ca">customerservice@skilledtradesbc.ca</a>
Website:	<a href="http://www.skilledtradesbc.ca">www.skilledtradesbc.ca</a>		

**Revision History**

The standards for this program were reviewed and/or updated on the dates below.

Program Approved:	February 2014
Updated:	March 2018

Program Profiles are updated regularly. Visit [www.skilledtradesbc.ca](http://www.skilledtradesbc.ca) for the most current version.