

MARINE MECHANICAL TECHNICIAN

Occupation Description

“Marine Mechanical Technician” means a person who installs, troubleshoots, repairs and maintains engines, drive trains and other mechanical, electrical and fluid systems used in the recreational marine industry. With endorsements this work involves all aspects of repairs to diesel engines, gasoline engines, outboard engines, conventional inboard drive trains and stern drives.

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

Pathways to Certification

In BC, an individual can become certified as a Marine Mechanical Technician by completing the Marine Mechanical Technician 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.

Youth can begin apprenticeship in high school through the Secondary School Apprenticeship (SSA) program. The SSA program is available for any trade if an employer is willing to sponsor the student.

Recommended Education

The following education is **recommended** for apprentices entering this occupation. These are not prerequisites, but rather a desired level of skill or knowledge that will contribute to success in the industry.

- Grade 10 or equivalent, including English 10 and Math 10.
- Preferred: Grade 12

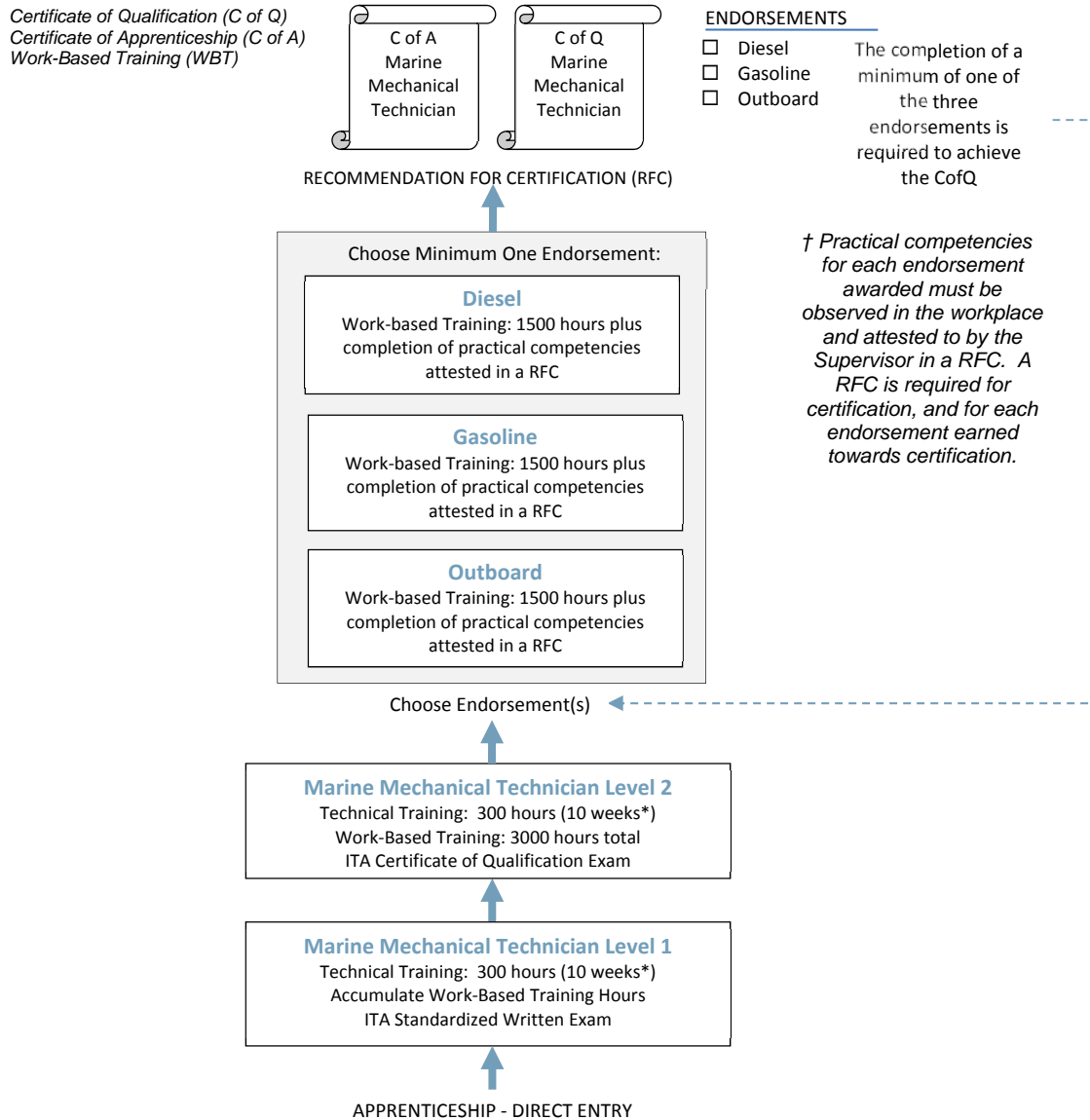
ITA Registration

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

Those who wish to challenge the Marine Mechanical Technician Program certification must complete the Marine Mechanical Technician Program Challenge Application and submit it to ITA. Challenge applications are assessed for proof of workplace hours and scope of experience prior to acceptance of the individual into the Challenge pathway.

Apprenticeship Pathway

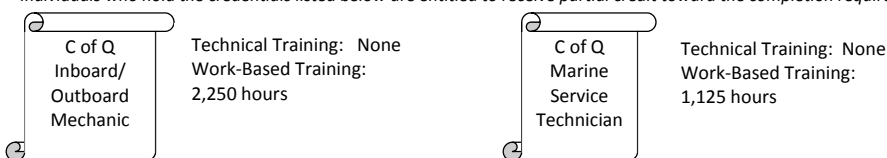
This graphic provides an overview of the Marine Mechanical Technician Program apprenticeship pathway.



**Suggested duration based on 30-hour week*

CROSS-PROGRAM CREDITS

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





INDUSTRY TRAINING PROGRAM PROFILE
RECOGNIZED PROGRAM

Apprenticeship Program Standards

Credentials Awarded	<ul style="list-style-type: none"> ▪ Marine Mechanical Technician Program – Certificate of Qualification ▪ Marine Mechanical Technician Program – Certificate of Apprenticeship 										
ITA Registration Prerequisites	<ul style="list-style-type: none"> ▪ Agreement signed by the employer to sponsor the apprentice 										
Completion Requirements	<p>Certification as a Marine Mechanical Technician Program is awarded upon successful completion of:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Requirement</th> <th style="text-align: left;">Level of Achievement Required</th> </tr> </thead> <tbody> <tr> <td>Technical Training</td> <td> Minimum 70% in each level of technical training: <ul style="list-style-type: none"> ▪ Level 1: 300 hours (or 10 weeks*) and ITA standardized written exam ▪ Level 2: 300 hours (or 10 weeks*) </td> </tr> <tr> <td>ITA Certificate of Qualification Exam</td> <td> <ul style="list-style-type: none"> ▪ Minimum 70% </td> </tr> <tr> <td>Work-Based Training</td> <td> <ul style="list-style-type: none"> ▪ 4500 hours (3000 general hours and minimum 1500 endorsement specific hours in either outboard, gasoline, or diesel) </td> </tr> <tr> <td>Recommendation for Certification</td> <td> <ul style="list-style-type: none"> ▪ Recommendation for Certification (RFC) signed-off by the Sponsor and/or an individual holding credentials eligible for sign-off authority showing achievement of 100% of competencies and completion of work-based training hours for at least one endorsement. Please submit the RFC form available on the website to ITA for assessment and verification. </td> </tr> </tbody> </table> <p>Additional endorsements may be earned after certification has been awarded, and added to the original Certificate of Qualification. <i>(*Assuming 30 hours in school per week)</i></p>	Requirement	Level of Achievement Required	Technical Training	Minimum 70% in each level of technical training: <ul style="list-style-type: none"> ▪ Level 1: 300 hours (or 10 weeks*) and ITA standardized written exam ▪ Level 2: 300 hours (or 10 weeks*) 	ITA Certificate of Qualification Exam	<ul style="list-style-type: none"> ▪ Minimum 70% 	Work-Based Training	<ul style="list-style-type: none"> ▪ 4500 hours (3000 general hours and minimum 1500 endorsement specific hours in either outboard, gasoline, or diesel) 	Recommendation for Certification	<ul style="list-style-type: none"> ▪ Recommendation for Certification (RFC) signed-off by the Sponsor and/or an individual holding credentials eligible for sign-off authority showing achievement of 100% of competencies and completion of work-based training hours for at least one endorsement. Please submit the RFC form available on the website to ITA for assessment and verification.
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Program Duration	<p>Duration varies depending on how training is delivered, but the program generally takes 3 years to complete.</p> <p>The technical training requirement is typically met through block-release training (full-time, at school) delivered by an ITA-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>										
Sign-off Authority	<p>Credentials eligible to sign-off on the Recommendation for Certification:</p> <ul style="list-style-type: none"> ▪ Marine Mechanical Technician – Certificate of Qualification ▪ Inboard/Outboard Mechanic – Certificate of Qualification ▪ ITA-issued letter authorizing supervision and sign-off of apprentices as a Marine Mechanical Technician or Inboard/Outboard Mechanic 										
Challenging a Level	<p>The following levels of technical training can be challenged for advanced placement in this program</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Level</th> <th style="text-align: left;">Prerequisites</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> ▪ N/A </td> <td> <ul style="list-style-type: none"> ▪ N/A </td> </tr> </tbody> </table>	Level	Prerequisites	<ul style="list-style-type: none"> ▪ N/A 	<ul style="list-style-type: none"> ▪ N/A 						
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INDUSTRY TRAINING PROGRAM PROFILE
RECOGNIZED PROGRAM

Apprenticeship Program Standards

Cross-Program Credits

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

Credential

Credit(s) Granted

Inboard/Outboard Mechanic –
Certificate of Qualification

- Technical Training: None
- Work-Based Training: 2,250 hours

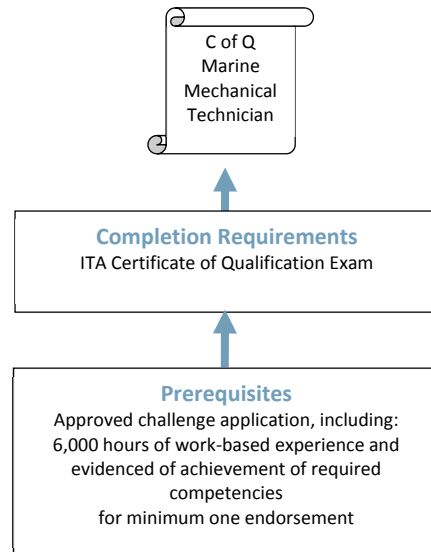
Marine Service Technician –
Certificate of Qualification

- Technical Training: None
- Work-Based Training: 1,125 hours

Challenge Pathway

This graphic provides an overview of the Marine Mechanical Technician Program challenge pathway.

Certificate of Qualification (C of Q)





INDUSTRY TRAINING PROGRAM PROFILE
RECOGNIZED PROGRAM

Challenge Program Standards

Credentials Awarded

Marine Mechanical Technician – Certificate of Qualification

ITA Registration Prerequisites

An approved Challenge Application, which includes:

- 6000 documented hours of directly related experience working in the occupation including; 4500 general marine mechanical experience and minimum of 1500 hours experience in at least one of the following endorsement areas:
 - Outboard
 - Diesel
 - Gasoline
- Applicants seeking more than one endorsement must have an additional 1500 hours related directly to the endorsement sought. 6000 hours is required for one endorsement, 7500 hours for two, and 9000 hours required for all three endorsements.

Credit for Prior Learning

Individuals who hold the credentials listed below are considered to have met, or partially met, the prerequisites for challenging this program:

Credential	Credit(s) Granted
N/A	▪ N/A

Completion Requirements

Certification as a Marine Mechanical Technician Program is awarded upon successful completion of:

Requirement	Level of Achievement Required
ITA Certificate of Qualification Exam	▪ Minimum 70%



INDUSTRY TRAINING PROGRAM PROFILE RECOGNIZED PROGRAM

Supporting Documents

Marine Mechanical Technician Program Outline (2013) – Defines the full scope of knowledge and skills required to competently perform the occupation in BC. Available from the ITA website.

Contacts

The **Industry Training Authority (ITA)** manages B.C.'s industry training and apprenticeship programs. Contact ITA Customer service if you have any questions regarding registration, examinations or certification for this program.

Telephone: 778-328-8700
Toll Free (within BC): 1-866-660-6011
Website: www.itabc.ca

Fax: 778-328-8701
Email: customerservice@itabc.ca

Revision History

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

Program Standards Approved: January 2007
Updated: June 2009
Updated: December 2013
Updated: June 2014

Program Profiles are updated regularly. Visit www.itabc.ca for the most current version.