

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 typically used in the recreational marine industry. Some light commercial and industrial applications are serviced. 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 an apprenticeship in high school through the Youth Train in Trades or Youth Work in Trades programs. The Youth Work in Trades program is available for any trade if an employer is willing to sponsor the student. Trades offered through the Youth Train in Trades vary by region; contact your local school district to find out which technical training programs are being offered through the Youth Train in Trades program in your region.

Foundation programs, where available, provide adults and youth who do not have work experience or employer sponsorship with an opportunity to gain the knowledge and skills needed to enter the occupation. Individuals who wish to enroll in a Foundation program must register directly with the training provider.

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

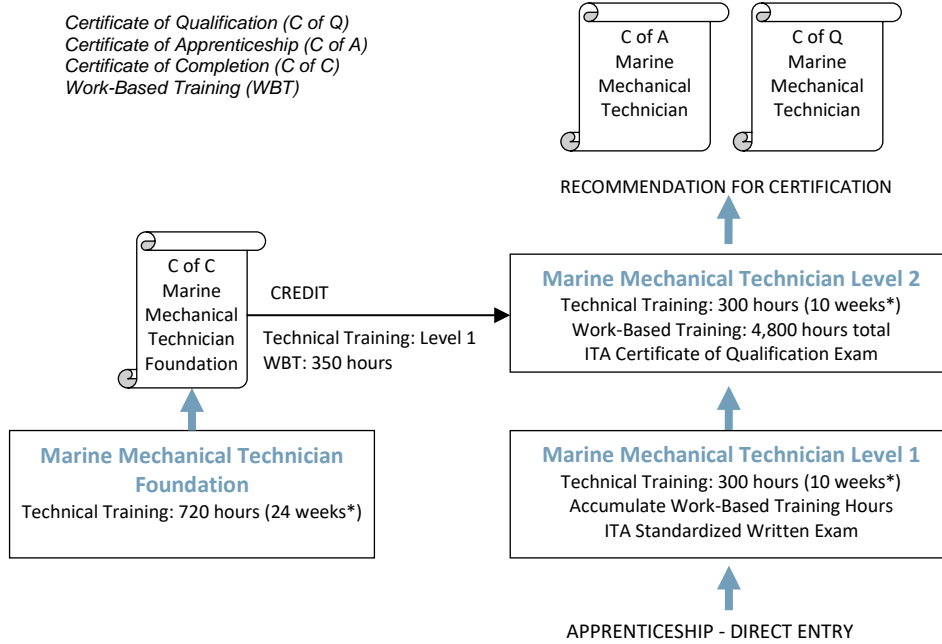
ITA Registration

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 certification must complete the Marine Mechanical Technician 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

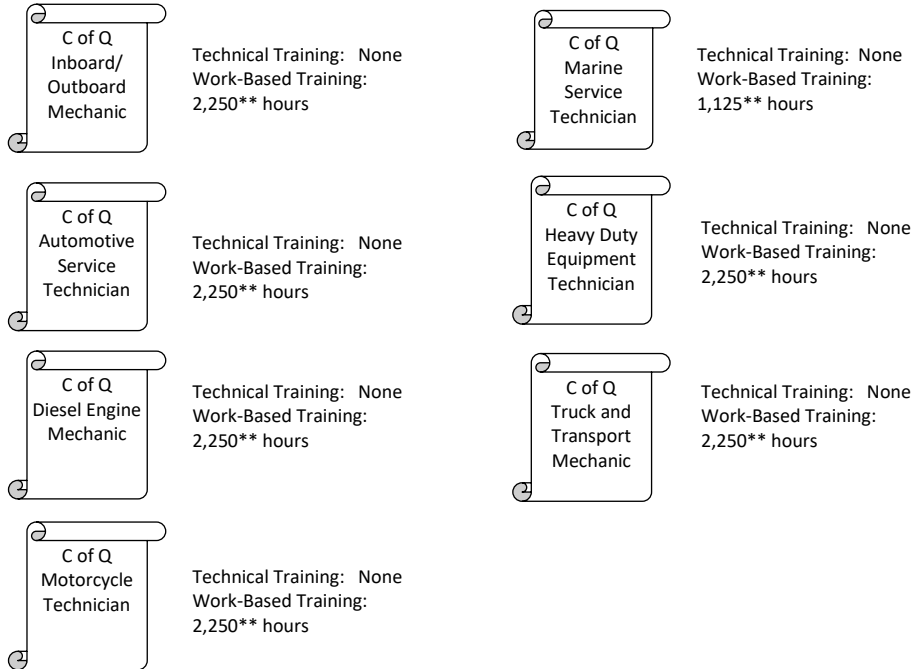
This graphic provides an overview of the Marine Mechanical Technician Program apprenticeship pathway:



**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:



***Individuals holding more than one of the above credentials will only be awarded credit for one credential totaling no more than 2,250 WBT hours.*



INDUSTRY TRAINING PROGRAM PROFILE RECOGNIZED PROGRAM

Apprenticeship Program Standards

Credentials Awarded	<ul style="list-style-type: none">Marine Mechanical Technician – Certificate of QualificationMarine Mechanical Technician – 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 is awarded upon successful completion of:</p> <table><thead><tr><th>Requirement</th><th>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 examLevel 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">4,800 hours</td></tr><tr><td>Recommendation for Certification</td><td><ul style="list-style-type: none">Recommendation for Certification signed by the Sponsor and an individual holding credentials eligible for sign-off authority</td></tr></tbody></table> <p>(*Assuming 30 hours in school per week)</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 examLevel 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">4,800 hours	Recommendation for Certification	<ul style="list-style-type: none">Recommendation for Certification signed by the Sponsor and an individual holding credentials eligible for sign-off authority
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ITA Certificate of Qualification Exam	<ul style="list-style-type: none">Minimum 70%										
Work-Based Training	<ul style="list-style-type: none">4,800 hours										
Recommendation for Certification	<ul style="list-style-type: none">Recommendation for Certification signed by the Sponsor and an individual holding credentials eligible for sign-off authority										
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 QualificationInboard/Outboard Mechanic – Certificate of QualificationITA-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> <p>Level</p> <ul style="list-style-type: none">Level 1										



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

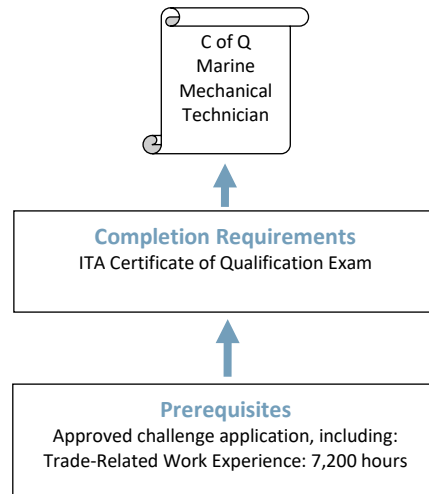
Credential	Credit(s) Granted
Inboard/Outboard Mechanic – Certificate of Qualification	<ul style="list-style-type: none">▪ Technical Training: None▪ Work-Based Training: 2,250* hours
Marine Service Technician – Certificate of Qualification	<ul style="list-style-type: none">▪ Technical Training: None▪ Work-Based Training: 1,125* hours
Automotive Service Technician – Certificate of Qualification	<ul style="list-style-type: none">▪ Technical Training: None▪ Work-Based Training: 2,250* hours
Heavy Duty Equipment Technician – Certificate of Qualification	<ul style="list-style-type: none">▪ Technical Training: None▪ Work-Based Training: 2,250* hours
Diesel Engine Mechanic – Certificate of Qualification	<ul style="list-style-type: none">▪ Technical Training: None▪ Work-Based Training: 2,250* hours
Truck and Transport Mechanic – Certificate of Qualification	<ul style="list-style-type: none">▪ Technical Training: None▪ Work-Based Training: 2,250* hours
Motorcycle Technician – Certificate of Qualification	<ul style="list-style-type: none">▪ Technical Training: None▪ Work-Based Training: 2,250* hours

*Individuals holding more than one of the above credentials will only be awarded credit for one credential totaling no more than 2,250 WBT hours.

Challenge Pathway

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

Certificate of Qualification (C of Q)



CREDIT FOR PRIOR LEARNING

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

<p>C of Q Inboard/ Outboard Mechanic</p>	<p>Technical Training: None Work-Based Training: 2,250* hours</p>	<p>C of Q Marine Service Technician</p>	<p>Technical Training: None Work-Based Training: 1,125* hours</p>
<p>C of Q Automotive Service Technician</p>	<p>Technical Training: None Work-Based Training: 2,250* hours</p>	<p>C of Q Heavy Duty Equipment Technician</p>	<p>Technical Training: None Work-Based Training: 2,250* hours</p>
<p>C of Q Diesel Engine Mechanic</p>	<p>Technical Training: None Work-Based Training: 2,250* hours</p>	<p>C of Q Truck and Transport Mechanic</p>	<p>Technical Training: None Work-Based Training: 2,250* hours</p>
<p>C of Q Motorcycle Technician</p>	<p>Technical Training: None Work-Based Training: 2,250* hours</p>		

**Individuals holding more than one of the above credentials will only be awarded credit for one credential totaling no more than 2,250 WBT hours.*



**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:

- 7,200 documented hours of directly related experience working in the occupation

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
Inboard/Outboard Mechanic – Certificate of Qualification	<ul style="list-style-type: none"> ▪ Technical Training: None ▪ Work-Based Training: 2,250* hours
Marine Service Technician – Certificate of Qualification	<ul style="list-style-type: none"> ▪ Technical Training: None ▪ Work-Based Training: 1,125* hours
Automotive Service Technician – Certificate of Qualification	<ul style="list-style-type: none"> ▪ Technical Training: None ▪ Work-Based Training: 2,250* hours
Heavy Duty Equipment Technician – Certificate of Qualification	<ul style="list-style-type: none"> ▪ Technical Training: None ▪ Work-Based Training: 2,250* hours
Diesel Engine Mechanic – Certificate of Qualification	<ul style="list-style-type: none"> ▪ Technical Training: None ▪ Work-Based Training: 2,250* hours
Truck and Transport Mechanic – Certificate of Qualification	<ul style="list-style-type: none"> ▪ Technical Training: None ▪ Work-Based Training: 2,250* hours
Motorcycle Technician – Certificate of Qualification	<ul style="list-style-type: none"> ▪ Technical Training: None ▪ Work-Based Training: 2,250* hours

*Individuals holding more than one of the above credentials will only be awarded credit for one credential totaling no more than 2,250 WBT hours.

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%



Foundation Program

Refer to the Apprenticeship pathway diagram for this program to see how the Marine Mechanical Technician Foundation program leads to apprenticeship in this trade.

Foundation Program Standards

Credentials Awarded	Marine Mechanical Technician – Certificate of Completion				
Enrollment Prerequisites	Contact training provider. Prerequisites vary between training institutions				
Completion Requirements	A Certificate of Completion in this program is awarded upon successful completion of: <table><thead><tr><th>Requirement</th><th>Level of Achievement Required</th></tr></thead><tbody><tr><td>Technical Training</td><td><ul style="list-style-type: none">Minimum 70%</td></tr></tbody></table>	Requirement	Level of Achievement Required	Technical Training	<ul style="list-style-type: none">Minimum 70%
Requirement	Level of Achievement Required				
Technical Training	<ul style="list-style-type: none">Minimum 70%				
Program Duration	Duration varies depending on how training is delivered, but the program generally takes 24 weeks to complete, assuming 30 hours in school per week				
Credit toward Apprenticeship	Individuals who complete the Marine Mechanical Technician Foundation program will receive the following credit toward completion of the Marine Mechanical Technician apprenticeship program: <ul style="list-style-type: none">Technical Training: Level 1Work-Based Training: 350 hours				



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
Updated: May 2021

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