

DIESEL ENGINE MECHANIC

Occupation Description

"Diesel Engine Mechanic" means a person who installs, repairs, and maintains all internal combustion diesel engines and components used in transport, construction and marine.

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.

Pathways to Certification

In BC, an individual can become certified as a Diesel Engine Mechanic by completing the Diesel Engine Mechanic 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, Mathematics 10 and Science 10
- Preferred: Grade 12

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.

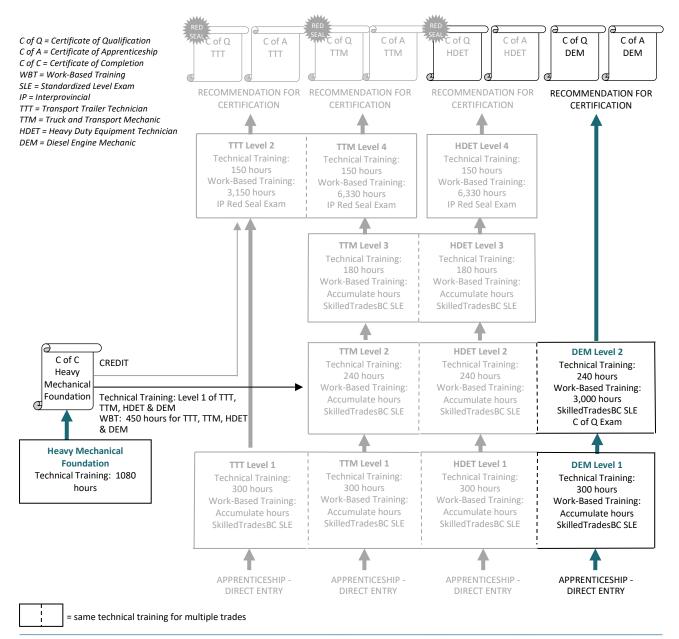
Those who wish to challenge the Diesel Engine Mechanic certification must complete the Diesel Engine Mechanic Challenge Application and submit it to SkilledTradesBC. Challenge applications are assessed for proof of workplace hours and scope of experience prior to acceptance of the individual into the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



RECOGNIZED PROGRAM

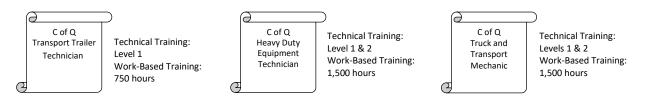
Apprenticeship Pathway

This graphic provides an overview of the Diesel Engine Mechanic apprenticeship pathway.



CROSS-PROGRAM CREDITS

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



DIESEL ENGINE MECHANIC (BC0139)

Diesel Engine Mechanic Program Profile Implementation date: April 1, 2024 Last revised: March 20, 2023



	Apprenticeship Program Standards		
Credentials Awarded	 Diesel Engine Mechanic - Certificate of Qualification Diesel Engine Mechanic - Certificate of Apprenticeship 		
SkilledTradesBC Registration Prerequisites	 Agreement signed by the employer to sponsor the apprentice 		
Completion Requirements	Certification as a Diesel Engine Mechanic is awarded upon successful completion of:		
	Requirement	Level of Achievement Required	
	Technical Training	 Minimum 70% in each level of technical training: Level 1: 300 hours and SkilledTradesBC Standardized Written Exam Level 2: 240 hours and SkilledTradesBC Standardized Written Exam 	
	SkilledTradesBC Certificate of Qualification Exam	 Minimum 70% 	
	Work-Based Training	• 3,000 hours	
	Recommendation for Certification	 Recommendation for certification signed by the Sponsor and an individual holding credentials eligible for sign-off authority 	
Program Duration	Duration varies depending on how training is delivered, but the program generally take years to complete. 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 met through approved alternative training models (e.g., distance education, online, par time) and/or level challenge where these options are available.		
Sign-off Authority	Credentials eligible to sign-off on the Recommendation for Certification:		
	Diesel Engine Mechanic - Certificate of Qualification		
		n – Interprovincial Red Seal endorsement orizing supervision and sign-off of apprentices as a	
Challenging a Level	The following levels of technical training can be challenged for advanced placement in this program.		
	Level		
	Level 1Level 2		

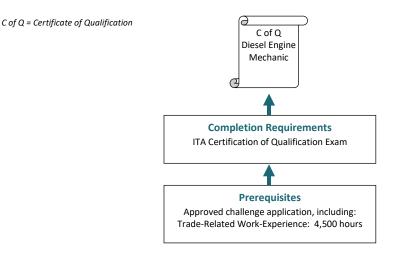


	Apprenticeship Program Standards	
Cross-Program Credits	Individuals who hold the credentials listed below are entitled to receive partial credit toward the completion requirements of this program	
	Credential	Credit(s) Granted
	Heavy Duty Equipment Technician – Certificate of Qualification	Technical Training: Levels 1 & 2Work-Based Training: 1,500 hours
	Truck & Transport Mechanic – Certificate of Qualification	Technical Training: Levels 1 & 2Work-Based Training: 1,500 hours
	Transport Trailer Technician – Certificate of Qualification	Technical Training: Level 1Work-Based Training: 750 hours



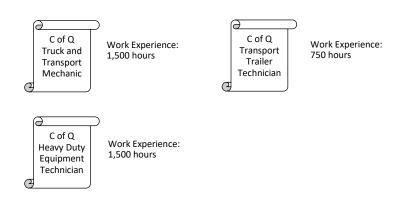
Challenge Pathway

This graphic provides an overview of the Diesel Engine Mechanic challenge pathway.



CREDIT FOR PRIOR LEARNING

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



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SKILLEDTRADESBC PROGRAM PROFILE RECOGNIZED PROGRAM

	Challenge Program Standards		
Credentials Awarded	Diesel Engine Mechanic - Certificate of Qualification		
SkilledTradesBC Registration Prerequisites	An approved Challenge Application, which includes:4,500 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	
	Transport Trailer Technician - Certificate of Qualification	 Work Experience: 750 hours 	
	Heavy Duty Equipment Technician – Certificate of Qualification	• Work Experience: 1,500 hours	
	Truck and Transport Mechanic – Certificate of Qualification	• Work Experience: 1,500 hours	
Completion Requirements	Certification as a Diesel Engine Mechanic is awarded upon successful completion of:		
	Requirement	Level of Achievement Required	
	SkilledTradesBC Certificate of Qualification Exam	Minimum 70%	



Foundation Program

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

	Foundation Program Standards		
Credentials Awarded	Heavy Mechanical – Certificate of Completion		
Enrollment Prerequisites	Contact training provider. Prerequisites vary between training institutions		
Completion Requirements	nts A Certificate of Completion in this program is awarded upon successful completion of:		
	Requirement	Level of Achievement Required	
	Technical Training	 Minimum 70% 	
Program Duration	Duration varies depending on how training is delivered, but the program generally takes 36 weeks to complete, assuming 30 hours in school per week.		
Credit toward Apprenticeship	 Individuals who complete the Heavy Mechanical Foundation program will receive the following credit toward completion of the Diesel Engine Mechanic apprenticeship program: Technical Training: Level 1 Work-Based Training: 450 hours 		



Supporting Documents

Diesel Engine Mechanic Program Outline (2023) – Defines the full scope of knowledge and skills required to competently perform the occupation in BC. Available from the SkilledTradesBC website.

Contacts

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

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

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

Revision History

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

Program Standards Approved:	March 2002
Updated:	January 2006
Updated:	December 2011
Updated:	November 2012
Updated:	August 2013
Updated:	December 2015
Updated:	August 2017
Updated:	October 2021
Updated:	March 2023

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