

HARMONIZED PLUMBER FOUNDATIONS CERTIFICATE

Learn and practice the skills needed in the plumbing trade such as installing, repairing and maintaining plumbing fixtures and various water, hydronic, drainage, waste and vent systems. Plumbers install specialized systems such as medical gas, process piping, compressed air, water conditioners, fuel piping, sewage and water treatment, and storage and flow equipment. Additionally, plumbers interpret drawings, refer to layouts of existing services, and review applicable codes and specifications to determine work details and procedures.

Apply to CMTN

Visit Apply to CMTN (<https://www.coastmountaincollege.ca/admissions/apply-to-cmntn/>) for an Admissions Checklist and to apply online.

Our Educational Advisors (<https://www.coastmountaincollege.ca/student-services/student-support/educational-advising/>) are here to help if you have any questions or need guidance along the way.

Dates and locations

Intake	Location
TBD	

Harmonized Plumber Foundations

Line A – Perform Safety Related Functions

- Maintains safe work environment
- Use personal protective equipment (PPE) and safety equipment
- Perform lock-out and tag-out procedures
- Practice fire prevention

Line B – Use Tools and Equipment

- Use common tools and equipment
- Use access equipment
- Use rigging, hoisting, lifting and positioning equipment
- Rig loads for cranes
- Use soldering and brazing equipment
- Use oxy-fuel cutting equipment
- Use welding equipment

Line C – Perform Routine Trade Activities

- Use mathematics and science
- Interpret drawings and specifications
- Use codes, regulations, and standards

Line D – Prepare Piping and Components

- Prepare pipe
- Join tube, tubing and pipe
- Install pipe
- Install valves
- Install fittings
- Penetrate structures

Line F – Use communication Techniques

- Use communication techniques

Line O – Apply Electrical Concepts

- Use the principles of electricity

In addition to these learning outcomes, CMTN will also help its students be able to:

- Exemplify a Trades Professional in classroom, shop and work environments.
- Assume responsibility for self, others and work environment.

Grade 12 OR Mature Student.

Four credits of English at a grade 12 level or equivalent AND Foundations of Math 11 or Workplace Mathematics 11 (MWPM-11/WPM 11) or higher.

Fees	Domestic	International
Full Time	21 weeks	21 weeks
Tuition	\$1,687.35	\$7,170.87
Student Union Fees:	\$109.28	\$109.28
Mandatory Fees:	\$482.37	\$532.95
Health Insurance	N/A	\$317.04
Total Program cost	\$2,279.00	\$8,130.14

Fees are effective as of August 1, 2024 for the 2024/25 academic year.

Books & supplies

- Tool Kit (<http://nwcc.bc.ca/sites/default/files/content-files/Plumbing%20Student%20Supplies%20Lists.pdf>)
- Book List (<https://coastmountaincollege.ca/student-services/campus-facilities/bookstore/booklists/>) (Select appropriate campus)

(https://client-snap.dev6.leepfrog.com/nwcc.bc.ca/sites/default/files/content-files/Plumb%20F_0.pdf) Books are available at the CMTN Campus Store (<https://www.coastmountaincollege.ca/student-services/campus-services/campus-store/>). Please check your local campus for details.

Career opportunities

Plumbers work in the full range of environmental conditions; from comfortable residential worksites to remote sites where inclement weather can be a factor. Shift work is common. Good physical condition is important because the work often requires considerable standing, bending, crawling, lifting, climbing, pulling and reaching.



Some important attributes of the Plumber Foundation student are:

- Reliability
- Analytical skills
- Ability to read and understand
- Mathematical aptitude

They also demonstrate the ability to:

- Communicate effectively
- Work with little or no supervision
- Contribute to a team approach
- Plan and work sequentially
- Adapt to changing technology
- Problem solve

Key attributes for people entering this trade are manual dexterity, hand-eye coordination, stamina and agility. Communication skills and patience are also important. Other assets are good vision, hearing and sense of smell to diagnose problems.

