

Plumbing Technology

PROGRAM DESCRIPTION



The Plumbing program is designed to provide students with a basic understanding of the tools and materials used by plumbing professionals to complete residential and light commercial plumbing projects. Students will have opportunities to become proficient in the design, installation, maintenance and repair of standard plumbing systems in accordance with the Maine State Plumbing Code.

KEY LEARNING OBJECTIVES

Graduates of this certificate program are eligible to sit for the State of Maine journeyman's plumbing examination. The journeyman-in-training license is issued to graduates who successfully complete the exam. With this credential, the graduate is allowed to work under the supervision of a journeyman or master plumber. Upon accumulating 2,000 hours under a journeyman or master plumber, the license is upgraded to that of journeyman. Graduates will have the opportunity to seek employment as service technicians, installers, draftspersons, warehouse workers, and salespersons.

Graduates are prepared to:

- Describe basic materials and tools used for standard residential and light-commercial plumbing projects.
- Adhere to safety rules and regulations relevant to the industry.
- Demonstrate essential math, blueprint reading, and interpretation of plumbing codes.
- Explain the components and assembly techniques required for standard pipe and water supply systems.
- Diagnose and repair plumbing systems.

CRIMINAL BACKGROUND SCREENING

Individuals offered admission to the Plumbing program will be required to submit to a national criminal background screening, at a minimum cost of \$75 (may be higher), within 30 days of acceptance. Applicants who have engaged in any activity or behavior which may be considered abuse, neglect or exploitation of a minor or of an incapacitated or dependent adult, or who has been convicted of any crime involving fraud or dishonesty, or drugs, or for which imprisonment of one year or more has been imposed are urged to seek clarification regarding program completion requirements from the Director of Admissions.

PREREQUISITE

High school level Algebra I required.



Programs of Study

Automotive
Building Construction
Business Management-Career Option
Business Management-Transfer Option
Business Management-Small Business
Career Studies
Computer Systems Technology
Criminal Justice
Culinary Arts
Diesel, Truck & Heavy Equipment
Digital Graphic Design
Early Childhood Education
Education-Career & Technical Ed
Education-Elementary Ed
Education-Secondary Ed
Electrical and Automation
Electricians Technology
Emergency Medical Services
Fine Woodworking & Cabinet Making
Fire Science
Human Services
Liberal Studies
Medical Assistant
Medical Office-Coding Option
Medical Office-Health Care Secretary
Medical Radiography
Nursing
Outdoor Recreation & Tourism
Plumbing
Refrigeration, Air Conditioning & Heating
Restaurant & Food Service Management
Surgical Technology
Trade & Technical Occupations
Welding

Admissions Office—EMCC

354 Hogan Road

Bangor, ME 04401

Phone: 207-974-4680

Toll-Free: 800-286-9357 (in Maine)

FAX: 207-974-4683

Email: admissions@emcc.edu

www.emcc.edu

PLUMBING TECHNOLOGY Certificate

FIRST SEMESTER

	CREDITS
PLG 101 Plumbing Technology I	6
PLG 111 Plumbing Technology Laboratory I	3
ENG 101 College Composition	3
MAT 113 Technical Mathematics I	3

SECOND SEMESTER

	CREDITS
PLG 102 Plumbing Technology II	6
PLG 112 Plumbing Technology Laboratory II	3
DTG 101 Plumbing Print Reading	2
GEN 130 Employability Skills	1
PSY 211 Human Relations	3
TOTAL CERTIFICATE CREDITS	30

COURSE DESCRIPTIONS-TECHNOLOGY COURSES

PLG 101 Plumbing Technology I

Introduces students to the Maine State Unified Plumbing Code Chapters 1-6 and the fundamentals of residential and light commercial plumbing emphasizing safety, plumbing math and measuring, soldering copper tubing, and fitting allowances.

PLG 102 Plumbing Technology II

Continues the Maine State Unified Plumbing Code Chapters 7-16 in preparation for the Maine State Journeyman's Plumbing Exam. Topics include fitting identification and use drainage and venting, cast iron and no-hub piping and fittings, and blueprint reading and layout. Prerequisites: PLG 101 and PLG 111

PLG 111 Plumbing Technology Laboratory I

Applies theories gained in PLG 101 adding the assembly, placement and connection of a variety of fixtures, appliance, and water taps. Other applications include various hot water sources and maintenance protocols, water piping and distribution, water heaters/piping, Pex tubing/piping, fitting identification, and piping materials connection options.

Co-requisite: PLG 101

PLG 112 Plumbing Technology Laboratory II

Applies theories and skills gained in PLG 102 and PLG 111 building more advanced and complex installations including practical drainage, venting and water distribution projects, black iron pipe threading and safety thread machine, threading projects, and license requirements and responsibilities. Co-requisite: PLG 102



DID YOU KNOW?

EMCC provides campus housing for over 260 students.



EMCC's Student Success Center offers tutoring services free of charge to our students.



EMCC's Athletic Department sponsors many on-campus intramural sports and recreational events.

EMCC students enjoy small class sizes, supportive faculty, transferable courses and leadership/engagement opportunities all for under \$4,000 per year

(most programs, based on 30 credit hours, in-state rate)

Campus tours are available.

Call 207-974-4857 or schedule an appointment through our website.

For more information or to apply online, visit us on the web at

www.emcc.edu

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EMCC is an equal opportunity/affirmative action institution and employer. For more info, please call 207-974-4633.