

PLUMBING TECHNOLOGY, CERTIFICATE OF COMPETENCY (PLBC)

Effective: Fall 2015

The Plumbing Technology Certificate Program prepares graduates to enter the plumbing field and construction industry. Students develop skills in all types of plumbing installation and repair work used in residential, institutional and commercial applications. Graduates also gain required industry knowledge and experience prior to entering a professional apprenticeship program.

Program Outcomes

Upon successful completion of this program, students should be able to:

- Summarize the history and foundations of the plumbing trade.
- Apply the appropriate techniques to install, repair, and maintain all plumbing related pipes and fixtures in accordance with local and international plumbing codes.
- Analyze and evaluate hot water heating principles.
- Demonstrate the appropriate use of tools to design plumbing systems and use equipment required to complete general plumbing tasks.
- Analyze public/private water and sewage disposal systems and install water and waste systems.
- Employ occupational health and safety principles and practices to meet the OSHA requirements for the construction industry.
- Demonstrate communication, quantitative reasoning and problem solving skills needed in industry.

Full-Time Academic Plan

The College will award a certificate of competency to students who complete an approved credit-bearing career program that requires less than 30 credits. General education courses may not be required for programs that have less than 30 credits. The student must have a cumulative GPA of 2.0 or higher. At least six (6) credits, or 50% of the total credits required, whichever is greater, must be completed at Delaware County Community College.

First Semester		Hours
PLB 110	Introduction to Plumbing	3
PLB 111	Faucets & Fixture Systems	3
TCS 105	Workplace Safety	2
HVA 106	Basic Piping for Contractors	2
HVA 104	Practical Problems in Mathematics for HVAC&R Technicians	3
Hours		13
Second Semester		Hours
PLB 112	Plumbing Residential Service	2
PLB 210	Drains and Sewers	3
PLB 211	Advanced Plumbing	2
TCS 100	Construction Blueprint Reading	3
PLB 212	Installation of Plumbing Related Fixtures	2
PLB 213	Principles of Prod Hot Water	3
Hours		15
Total Hours		28

Part-Time Academic Plan Part-Time Evening Schedule

The PLB specific courses in the Plumbing Technology program rotate through a three-semester cycle. Students who begin when PLB 110 and PLB 111 are not being offered should start with one or two classes from the list of "any semester" courses until the rotation begins again.

Students with advising questions should speak to the Director of Technical Education, Amy Antrim @ 610-325-2819.

Code	Title	Hours
First Semester		
PLB 110	Introduction to Plumbing	3
PLB 111	Faucets & Fixture Systems	3
Second Semester		
PLB 112	Plumbing Residential Service	2
PLB 210	Drains and Sewers	3
Any Semester Course *		
Third Semester		
PLB 211	Advanced Plumbing	2
PLB 212	Installation of Plumbing Related Fixtures	2
PLB 213	Principles of Prod Hot Water	3
Fourth Semester		
Any Semester Course *		
Any Semester Course *		
Any Semester Course *		
Any Semester *		
HVA 104	Practical Problems in Mathematics for HVAC&R Technicians	3
HVA 106	Basic Piping for Contractors	2
TCS 100	Construction Blueprint Reading	3
TCS 105	Workplace Safety	2
Total Hours		28

* **Any Semester Course** may be taken in any order.

Career