CEMENT MASONRY, CERTIFICATE OF PROFICIENCY

Students must be currently working in a registered apprenticeship program in conjunction with the U.S. Department of Labor, Bureau of Apprenticeship and Training. The apprenticeship program prepares the student to earn a journey-level status in Cement Masonry, as well as earn an Associate Degree in Applied Industrial Technology. The apprenticeship certificate recognizes student attaining journey level status at the completion of the technical studies. A five year apprenticeship emphasizes the skill set required to be a highly skilled craftsman. An apprentice learns to install, repair, maintain and service finished surfaces of poured concrete, such as floors, walks, sidewalks, roads, or curbs using a variety of hand and power tools. Align forms for sidewalks, curbs, or gutters; patch voids, monitor concrete curing, and use saws to cut expansion joints.

Program contact: Learn more

Financial Assistance funds cannot be applied towards this program.

This certificate will be automatically awarded when the certificate requirements are completed. If you do not want to receive the certificate, please notify the Office of the Registrar at RegistrarOffice@tri-c.edu.

Learn more about how certificate credits apply to the related degree.

Program Admission Requirements

- High School Diploma/GED

Other Information

- Participants must be currently working in a registered apprenticeship program in conjunction with the U.S. Department of Labor, Bureau of Apprenticeship & Training.

Program Learning Outcomes

This program is designed to prepare students to demonstrate the following learning outcomes:

a. Listen, communicate and work with co-workers, supervisor, suppliers and other trades in order to efficiently and timely perform tasks at hand in a team environment according to the Cement Mason Code of Conduct.
b. Demonstrate pride of craftsmanship.
c. Recognize and comply with OSHA safety standards and contractor's policies and procedures.
d. Read job specifications and blueprints to calculate quantity needs and quantity of various types of materials to ensure materials meet job requirements.
e. Identify and properly use the appropriate tools to set up, place and finish materials in a safe and efficient manner.
f. Use appropriate construction equipment and tools to move, place and finish materials in a safe and efficient manner.
g. Commit to and understand the nature of working in the construction trade, especially planning for seasonal work.
h. Maintain a fitness level to be able to meet the physical demands of the job.
i. Be certified in OSHA 16.

Suggested Semester Sequence

First Semester		**Credit Hours**
ATCM-1300	Fundamentals of Concrete Construction	2
ATCM-1321	Introduction to Plan Reading	1
ATCM-1330	Concrete Construction Equipment	2
ATCM-1341	OSHA Standards for Construction	2
ATCM-1401	Concrete Forming and Finishing Basic	2
ATCM-XXXX	Elective	1
ATCM-XXXX	Elective	2
	Credit Hours	**12**
Second Semester		
ATCM-1411	Commercial and Residential Form and Finish	2
ATCM-2320	Bluprint Fundamentals - Construction	2
ATCM-2500	Fundamentals of Concrete Curing	1
ATCM-2510	Fundamentals of Concrete Joints	1
ATCM-2521	Basic Cement Patching	1
ATCM-2531	Concrete Restoration	1
ATCM-XXXX	Elective	2
	Credit Hours	**10**
Summer Completion		
ATCM-2701	Advanced Concrete Finishing	2
ATCM-XXXX	Elective	2
ATCM-XXXX	Elective	2
ATCM-XXXX	Elective	2
	Credit Hours	**8**
	Total Credit Hours	**30**

MATH-1140, MATH-1141, MATH-1200, MATH-1270, and MATH-1280 can no longer count towards fulfilling the college-level mathematics requirement. These courses were re-classified as developmental mathematics by the state of Ohio in 2016. Tri-C established a 5-year transitioning window for students who had completed these courses prior to 2016 to apply them towards meeting graduation requirements, which expired in Summer 2021. It is highly recommended to see a counselor to determine the appropriate math required for your current major.