

APPLIED INDUSTRIAL TECHNOLOGY (GLAZING), ASSOCIATE OF APPLIED SCIENCE



This program is offered in partnership with the International Union of Painters and Allied Trades at various local training centers around the state. 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 work as a journey-level Glazier, as well as earn an Associate of Applied Science degree in Glazing Technology. A four-year apprenticeship emphasizes the skill set required to be a highly skilled craftsman. The Glazier cuts and installs all types of glass. Materials include clear and heat absorbing glass, obscure glass, mirrors, leaded glass panels and insulating glass. The glazier also fabricates aluminum entrances, sidelights and show windows, and works with plastic and porcelain panels in metal and wood frames.

Program contact: Learn more

This degree program contains one or more embedded certificates which will be automatically awarded when the certificate requirements are completed. If you do not want to receive the embedded certificate(s), please notify the Office of the Registrar at RegistrarOffice@tri-c.edu.

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

Related Degrees and Certificates

- Glazing, Certificate of Proficiency

Program Admission Requirements

- High School Diploma/GED required.
- Aptitude Test – contact program coordinator for information
- Intent-to-hire agreement with participating contractor
- Participant must be working in an apprenticeship in conjunction with the U.S. Department of Labor, Bureau of Apprenticeship and Training.

Next Steps to Apply

- Individuals interested in this program/certificate must reach out to the training center of your choice listed at the bottom of the Glazing program page on the Tri-C website
- The union must select and admit you into the apprenticeship program first.

- Once accepted into the apprenticeship program, a Tri-C representative will work with you directly to enroll in the credit courses. Each of the classes will be held at your training center.

Program Learning Outcomes

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

1. Apply basic math concepts to accurately determine material and labor needs for a specific task.
2. Apply fundamentals of workplace health and safety related to the construction site commensurate with state, federal, local, contractors and customer's standards and policies.
3. Identify and resolve unexpected issues that impede successful and timely completion of a specified task.
4. Demonstrate effective listening, verbal, written, and conflict management skills to communicate accurately and respectfully with co-workers and customers.
5. Apply finishing trade skills, techniques, and philosophies to complete the assigned task in an efficient, timely and professional manner.
6. Interpret drawings and use principles of glass, layout techniques, math, materials, tools and equipment to properly fabricate, assemble, and install all types of glass window and door systems.
7. Sit for welding certification as it relates to the glazing industry.

Suggested Semester Sequence

First Semester		Credit Hours
ATGL-1330	Hand Tools for Glaziers	2
ATPT-1300	Introduction to Painting, Drywall Finishing, and Glazing	2
ATPT-1320	Safety Standards for Construction (OSHA-10)	3
Any Approved Ohio Transfer 36 mathematics course ¹		3
Select one of the following:		2-3
BADM-xxxx	Business Elective	
CNST-1xxx	CNST Elective	
CNST-1290	Construction Print Reading	
FIN-1061	Personal Finance	
Select one of the following:		3
ENG-1010	College Composition I	
ENG-101H	Honors College Composition I	
		Credit Hours 15-16
Second Semester		
ATGL-1620	Glass and Mirror Replacement and Installation	2
ATGL-1630	Basic Welding	2
ATGL-1640	Door Fabrication and Installation	2
ATPT-1650	Blueprints I: Construction Fundamentals	2
Communication requirement		3
Select one of the following:		3
BADM-xxxx	Business Elective	
CNST-1xxx	CNST Elective	
CNST-2131	Construction Methods and Materials	
ACCT-1011	Business Math Applications	

Select one of the following:	3
IT-1090 Computer Applications	
IT-109H Honors Computer Applications	
Credit Hours	17

Third Semester

ATGL-2330 Transits, Leveling Instruments, and Lasers	2
ATGL-2350 Curtainwall Fabric & Install	2
ATPT-2320 Safe Work Practices	3
Arts & Humanities requirements	3
Select one of the following:	2

ATDW-xxxx ATDW Elective course	
ATGL-xxxx ATGL Elective course	
ATPT-xxxx ATPT Elective course	

Select one of the following:	3
BADM-xxxx Business Elective	
CNST-xxxx CNST Elective	
Credit Hours	15

Fourth Semester

AIT-2990 Contracting in a Diverse World	3
ATGL-2340 Advanced Welding	2
ATPT-1640 Rigging & Hoisting	2
Social & Behavioral Sciences	3
Select one of the following:	3

BADM-xxxx Business Elective	
CNST-xxxx CNST Elective	
Credit Hours	13

Total Credit Hours **60-61**

¹ MATH-1100 Mathematical Explorations or MATH-1240 Contemporary Mathematics taken prior to Fall 2024 will be accepted to meet mathematics requirement for this program.

Construction Management Electives

Recommended electives for Construction Management:

Code	Title	Credit Hours
CNST-1281	Construction Engineering Orientation	3
CNST-1290	Construction Print Reading	2
CNST-1510	Green Building & Sustainability I	3
CNST-2131	Construction Methods and Materials	3

Business & Supervision Electives

Recommended electives for Business & Supervision:

Code	Title	Credit Hours
BADM-1020	Introduction to Business	3
BADM-1210	Labor-Management Relations	3
BADM-1122	Principles of Management and Organizational Behavior	3

Entrepreneur Electives

Recommended electives for Entrepreneur:

Code	Title	Credit Hours
BADM-2450	New Business Development	5
BADM-1301	Small Business Management	3

Personal Finance Electives

Recommended electives for Personal Finance:

Code	Title	Credit Hours
ACCT-1011	Business Math Applications	3
FIN-1061	Personal Finance	3

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.