

# APPLIED INDUSTRIAL TECHNOLOGY (GLAZING), ASSOCIATE OF APPLIED SCIENCE



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 Applied Industrial 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.

## Program Admission Requirements

- High School Diploma/GED required.
- Aptitude Test – contact program coordinator for information
- Intent-to-hire agreement with participating contractor

## Other Information

- Participant must be working in an apprenticeship in conjunction with the U.S. Department of Labor, Bureau of Apprenticeship and Training.

## 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.

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.

## 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
MATH-1xxx	1000-level MATH course or higher	3
Select one of the following:		3
BADM-xxxx	Business Elective	
CNST-1xxx	CNST Elective	
CNST-1731	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 16
Second Semester		Credit Hours
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			Code	Title	Credit Hours
ATGL-2330	Transits, Leveling Instruments, and Lasers	2			
ATGL-2350	Curtainwall Fabric & Install	2	ACCT-1011	Business Math Applications	3
ATPT-2320	Safe Work Practices	3	FIN-1061	Personal Finance	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		61			

## Construction Management Electives

Recommended electives for Construction Management:

Code	Title	Credit Hours
CNST-1281	Construction Engineering Orientation	3
CNST-1510	Green Building & Sustainability I	3
CNST-1731	Construction Print Reading	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: