APPLIED INDUSTRIAL TECHNOLOGY (CONSTRUCTION TENDING AND HAZARDOUS MATERIAL ABATEMENT), 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 earn a journey-level status in Construction Tending and Hazardous Materials Abatement, as well as earn an Associate of Applied Science degree in Applied Industrial Technology. A three year apprenticeship emphasizes the skill set required to be a highly skilled craftsman. These apprentices assist other trades on the job site as well as prepare the job site by removing any hazardous materials.

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

- Aptitude test
- High School Diploma/GED

Other Information

- Participant must be working in an apprenticeship in conjunction with the U.S. Department of Labor, Bureau of Apprenticeship and Training
- Applicants are reviewed and selected by committee for admission to the program

Program Learning Outcomes

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

a. Listen, ask questions, confirm understanding and use hand signals when needed to communicate and follow directions to be able to safely complete a job.

b. Work independently and in a team environment to accomplish the job in a timely and professional manner.

c. Exhibit pride of craftsmanship and reliability; actively engage in all aspects of the project and take opportunities to upgrade skills.

d. Recognize hazardous conditions and materials, wear appropriate personal protective equipment and take preventative measures following federal, state, and local policies and procedures.

e. Commit to and understand the seasonal, physical and hazardous nature of the construction industry and maintain a fitness level to be able to meet the physical requirements of the Construction Craft laborer profession.

f. Prepare the job site, assist with job site layout and perform final clean up according to established industry standards prior to transfer of the project to the owner.

g. Read job specifications and blueprints; use appropriate math to calculate the material needs of the skilled crafts being tended; schedule and properly place materials in a proactive and timely manner.

h. Use OSHA required personal protective equipment, techniques and procedures to abate and secure hazardous materials (i.e. asbestos, lead, hazardous waste).

i. Be certified in OSHA Confined Space Entry, fall protection, asbestos, scaffold user, lead, all terrain forklift, skid-steer loader, hazardous materials and OSHA 10.

Suggested Semester Sequence

First Semester		Credit Hours
ATLB-1010	Craft Orientation for Laborers	1
ATLB-1020	Measurements and Leveling	2
ATLB-1210	Concrete Placement	2
ATLB-1340	Mason Tending	3
ATLB-xxxx	Laborer Elective	2
ATLB-xxxx	Laborer Elective	1
Any Approved Ohio Transfer 36 Mathematics course [1]		3
Select one of the following:		3
ENG-1010	College Composition I	
ENG-101H	Honors College Composition I	
	Credit Hours	**17**
Second Semester		
ATLB-2650	Demolition Techniques	3
ATLB-xxxx	Laborer Elective	2
ATLB-xxxx	Laborer Elective	2
ATLB-xxxx	Laborer Elective	3
Select one of the following:		3
CNST-xxxx	CNST Elective	
BADM-xxxx	Business Elective	
FIN-1061	Personal Finance	
Select one of the following:		3
IT-1090	Computer Applications	
IT-109H	Honors Computer Applications	
	Credit Hours	**16**
Third Semester		
ATLB-2110	Small Engines & Concrete Saws	2
ATLB-2120	Pneumatic Tools	2

ATLB-xxxx	Laborer Elective	2
ATLB-xxxx	Laborer Elective	2
Communication requirement		3
Select one of the following:		2-3
BADM-xxxx	Business Elective	
CNST-1xxx	CNST Elective	
	Credit Hours	**13-14**
Fourth Semester		
AIT-2990	Contracting in a Diverse World	3
Arts & Humanities requirement		3
Social & Behavioral Science requirement		3
Select one of the following:		3
BADM-xxxx	Business Elective	
CNST-1xxx	CNST Elective	
Select one of the following:		3
BADM-xxxx	Business Elective	
CNST-2131	Construction Methods and Materials	
	Credit Hours	**15**
	Total Credit Hours	**61-62**

[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 courses to fulfill Construction Management elective credits:

Code	Title	Credit Hours
CNST-1281	Construction Engineering Orientation	3
CNST-1510	Green Building & Sustainability I	3
CNST-1290	Construction Print Reading	2
CNST-2330	Construction Scheduling	3
CNST-2631	Construction Management Systems	3

Business Electives

Recommended courses to fulfill business elective credits:

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