

A **Win-Win-Win** for Students, Employers and the Workforce Economy



Valuable Apprenticeship Possibilities!

Become a part of the solution.

Tri-C was selected to participate in the Ohio College Apprenticeship Consortium. As a participant Tri-C is now available to serve as your state registered approved sponsor. Customize an apprenticeship or partner with us:

- Machining/tool & die
- Maintenance
- Bus mechanic
- CNC

As a partner, Tri-C will be your one-stop shop:

- Enroll apprentices in RAPIDS state approved registry
- Double as your related technical instruction (RTI)
- Offer first year credit-by-exam
- Handle all the documentation leaving you paperwork free!
 - Credit vouchers
 - Track and maintain records with the state
 - On-the-job training EZ track through mobile app



Machining



Maintenance



MANUFACTURING TECHNOLOGY
A TRI-C® CENTER OF EXCELLENCE

www.tri-c.edu/mcoe

216-987-3030



In-Demand Industry Fast Track Training Programs

TOP INDUSTRIES WITH IN-DEMAND JOBS

**CNC/Precision
Machining**

Construction

**Certified
Technician**

**Maintenance
Technician**

**Advanced
Manufacturing**

**CNC Machine Operator
(Right Skills Now)**

2 - 3
Months

**Precision Machining
Pre-Apprenticeship
(Level 1)**

3
Months

**Construction
Pre-Apprenticeship
Training**

2
Months

**Construction
Project Management
(Entry-Level)**

8
Months

**Certified Production
Technician**

2
Months

**Certified Logistics
Technician**

2
Months

**Building
Maintenance
(Level 1)**

4
Months

**Automation
Maintenance
(Level 1)**

4
Months

**Welding
Technology**

4 - 8
Months

**Additive
Manufacturing
3-D
(Part 1)**

4
Months

REGISTER TODAY! 216-987-3030 | training4U@tri-c.edu
View all manufacturing training programs at tri-c.edu/mcoe

In-Demand Industry Fast Track Training Programs

Program Length	Program	Credentials	Entry-level Careers
8 Weeks	Certified Logistics Associate Certified Logistics Technician	Manufacturing Skill Standards Council (MSSC) Certification	Warehouse worker Tow motor operator Shipping and receiving clerk Material handler Entry-level logistics/supply chain worker
14 Weeks	Precision Machinist Technician Pre-Apprenticeship (Level One)	State of Ohio Registered Pre-Apprenticeship Certification Certificate of Proficiency	CNC/ Machine operator Machinist apprentice Tool & Die apprentice CNC machinist/ CNC programmer
4-8 Weeks	CNC Operator Right Skills Now Program	National Institute for Metalworking Skills (NIMS) Certificate CNC Technology Certificate	CNC machine operator Mill and lathe operator
8 Weeks	Certified Production Technician	Manufacturing Skill Standards Council (MSSC) Certification	Production line worker Apprentice Entry-level manufacturing worker
16 Weeks	Introduction Welding Technology Entry Level	American Welding Society (AWS) Certificate of Completion	Certified welder/fitter Fabricator Hull technician Robotics welding technician Iron worker/Sheet metal/Pipe fitter Material source inspector/Engineer Underwater welder/ Pipe welder Artist
32 Weeks	Construction Project Manager (Entry-Level)	Certificate of Proficiency	Project coordinator/manager Project scheduler/ Estimator Business arbitrator associate Building surveyor/engineer Construction manager
16 Weeks	3D Design and Additive Manufacturing Technology	Short-Term Certificate	Additive manufacturing technician 3D Designer/Software entry-level 3D/Polymer printing specialist
8 Weeks	Construction Pre-Apprenticeship Training	State of Ohio Registered Pre-Apprenticeship OSHA - 10	Carpentry apprentice Plumbers apprentice Pipefitters apprentice Bricklayers & Allied Crafts apprentice Painters & Allied Trades apprentice Iron Workers apprentice Cement Masonry apprentice Operating Engineers apprentice Sheet Metal Worker apprentice
16-24 Weeks	Building Maintenance Technician (Level 1)	Certificate of Proficiency	Building/ Facility manager HVAC Maintenance Technician Boiler Apprentice Electrical Technician/ Engineer Mechanical Technician/ Engineer Network Computer Technician
16 Weeks	Automation Maintenance Technician	Certificate of Proficiency	Programmable Logic Control (PLC) Technician Industrial Automation Technician Robotic Programmer

Fast-track industry training programs at Tri-C® are designed to facilitate rapid employment in in-demand jobs.



**Manufacturing Technology
Center of Excellence**
a Division of Cuyahoga Community College

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20-0677

Applied Manufacturing Technology PROGRAMS



Course Title	Course Number/ Credits	Precision Machining Technology (PMT)	Manufacturing Technology Apprenticeship Sequence (MAT)	*Applied Industrial Technology (Associate of Applied Science)
Mechanical and Spatial Relations	ATMT-1000 / 4	X		
Manufacturing Skills I (Basic B/P)	ATMT-1100 / 3	X	X	X
Manufacturing Skills II (Shop Math)	ATMT-1110 / 2	X	X	X
Machine Operations I	ATMT-1120 / 6	X		
Machine Tool Theory	ATMT-1200 / 4		X	X
Field Experience	ATMT-1950 / 2		X	• ISET-1310: Mechanical Power Transmission • MATH-1xxx: 1000-level or higher • ENG-1010 or 101H: College Composition I/Honors
Machine Operations II	ATMT-2120 / 6	X		
Manufacturing Procedures (Dies)	ATMT-1300 / 2	X	X	X
Introduction to AutoCAD (CAD)	ATMT-1600 / 2		X	X
Manufacturing Tech Skills I (Int. B/P)	ATMT-1500 / 4		X	X
Field Experience	ATMT-1950 / 2		X	• BADM-1020: Intro to Business • MATH-1xxx: 1000-level or higher
Advanced Mfg Procedures (CAD)	ATMT-2300 / 2		X	X
CNC Programming (CNC Simulator)	ATMT-2600 / 2		X	X
Manufacturing Tech Skills II (B/P-Math)	ATMT-2500 / 4		X	X
Field Experience	ATMT-1950 / 2		X	• Social and Behavioral Sciences/ Natural and Physical Sciences requirement • BADM-1122: Principles of Mgmt and Organizational Behavior
Advanced Die Making	ATMT-2400 / 2		X	X
CAM Principles (MasterCAM)	ATMT-2620 / 2		X	X
Manufacturing Tech Skills III (Inventor)	ATMT-2700 / 4		X	X
Field Experience	ATMT-1950 / 2		X	• COMM-1000: Fundamentals of Interpersonal Communication • Arts and Humanities requirement
	TOTAL CREDITS:	27	41	60

*Denotes mandatory English assessment

- All programs are financial aid eligible (including scholarship and grant opportunities)
- Mandatory English and math assessments determine courses in which students may register

Visit tri-c.edu/paying-for-college/index.html for current tuition and fees.

Applied Manufacturing Technology PROGRAMS



Competency Award

Pre Apprenticeship PMT (Credit) Machining and Composites

- 28-week training
- Credits: 27
- Median salary: \$30-\$55K
- Tuition: \$3,105 plus fees

Requirements

High school diploma/
GED
College application
Math assessment
(ALEKS)



State Journeyman Certificate

Apprenticeship Manufacturing Technology

- Four-year on-the-job training
- Credits: 41
- Median salary: \$45-\$70K
- Tuition: \$4,697 plus fees

Requirements

Employment
(manufacturing)
Apprenticeship
agreement
High school diploma/
GED
College application
Math assessment
(ALEKS)



Associate of Applied Science (Manufacturing Technology)

Applied Industrial Technology (Manufacturing Technology)

- Two-year degree program
- Credits: 60
- Median salary: \$55-\$80K
- Tuition: \$6,873 plus fees

Requirements

High school diploma/
GED
College application
Math assessment
(ALEKS)
English placement

Popular careers

Project manager
Cost estimator
Safety coordinator
Quality control
technician



Bachelor of Engineering Technology

Excelsior University and Ohio University

- Four-year degree program
- Credits: 124
- Median salary: \$55K+
- Tuition: See college website
excelsior.edu
ohio.edu

Requirements

High school diploma/
GED
College application
Math assessment
(ALEKS)
English placement

Popular careers

Project engineer
Manufacturing engineer
Production team leader
Quality assurance
engineer