



OhioTechNet

OhioHigherEd
Department of Higher Education

Advanced Manufacturing CBE Delivery

Through Ohio TechNet, Sinclair is developing new accelerated, flexible education pathways to meet the Advanced Manufacturing workforce needs of the Dayton Region



This workforce solution was funded by a grant awarded by the USDOL's Employment & Training Administration. For complete program release information, visit www.workforce.sinclair.edu/accelerate.

Ohio TechNet Overview

1646

INDIVIDUALS
ENROLLED IN OTN
PROGRAMS

350+

EMPLOYER
PARTNERS
ENGAGED

132

PROGRAMS
CREATED OR
ENHANCED



\$15 MILLION + **\$2.4 MILLION**
INVESTMENT LEVERAGED
RESOURCES

All figures as of June 30, 2017

Problem Statement: State of Ohio & Education



Ohio has established a bold statewide goal for educational attainment:

65% of Ohioans, ages 25-64, will have a degree, certificate or other postsecondary workforce credential of value in the workplace by 2025

Currently 3 million adults in Ohio have some college, but no degree

Source: <https://www.ohiohighered.org/attainment>

The skilled worker pipeline



Ideal state



Current state

COLLABORATIONS

KEY EMPLOYER COLLABORATORS



<http://ohiotech.net.org/employer-listing/>

STATE COLLABORATORS



Manufacturing USA Partnership



Promoting Manufacturing Careers



Keeping Progress “in TAACCCT”

Employer Engagement

(Industry Recognized Credentials)

Acceleration/Modularization Strategies

(Prior Learning Assessment, Competency-Based Education, Remediation)

Work-Based Learning Models

(Apprenticeship, Earn/Learn Programs)

Supportive Services





Our Solution

- **Online/Hybrid** approach makes learning more flexible for students
- **Flex-paced** means students move at their own rate
- **Accelerated options** for knowledgeable students
- **Rolling starts** – you don't have to wait another 16 weeks to begin
- **Academic-Success Coaching**



You don't have to quit life to earn a certificate and be employed in a high-demand career in manufacturing!



Curriculum Revision

- **Industrial Maintenance math curriculum was revised to be more hands on and applied**
 - Makes math easier for students and will increase success rates
 - New curriculum is currently being delivered with good results
- **CAM Basic Machining Short-term Certificate revised to CBE flex-paced hybrid format**
 - Students now have the opportunity to take courses mostly online and schedule their labs around their work and home life



Programs



Industrial Maintenance

Green Level Certificates

- Maintenance Fundamentals
- Industrial Mechanics

Yellow Level Certificates

- Industrial Electricity
- Industrial Fluid Power

Red Level Certificates

- Industrial Controls and PLCs

Blue Level Certificates

- Automation Systems

CAM—Basic Machining

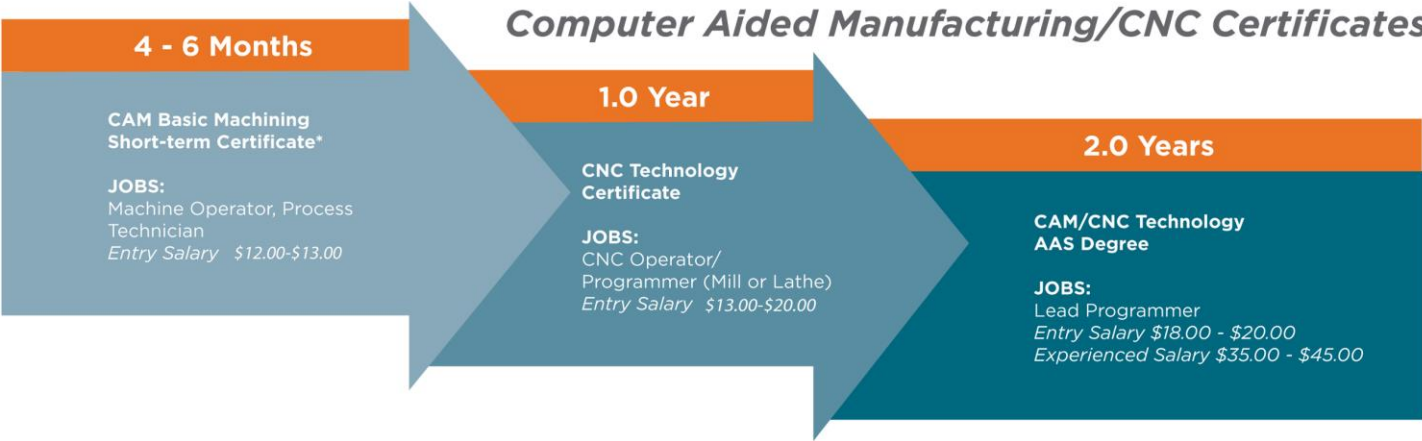
- **CAM 1116** - Fundamentals of CNC
- **CAM 1141** - Shop Floor Calculations I
- **CAM 1109** - Fundamentals of Tooling and Machining
- **MET 1131** - Personal Computer Applications for Engineering Technology
- **OPT 1100** - Tooling and Machining Metrology

Manufacturing Career Pathways

SkillsTrac Industrial Maintenance Certificates



Computer Aided Manufacturing/CNC Certificates





Results to Date

- 7 courses converted, 2 more in development
- 208% of participant goal
- 69 completions/credentials
- CBE machining students are completing courses, on average, 28 days faster than students in “traditional” courses
- Completions in as little as 6 days!



"I was very fond of the flexible, faster paced classes and how they worked with my schedule." - Jake Blevins.

Accelerate MFG student.

By enrolling in the accelerated course, Jake was able to complete a 16 week CAM course in just 4 weeks.

ACCELERATE

Advanced Manufacturing Education



MFG™

Employer Partners:



DAYTON PROGRESS



MAKINO



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Dayton, OH 45404



INVOTEC
ENGINEERING, INC.



ACCELERATE

www.workforce.sinclair.edu/accelerate



MFG™

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Filling the pipeline of manufacturing workers to meet the needs of industry!

workforce.sinclair.edu/accelerate



Footnotes

This workforce product was funded by a grant awarded by the U.S. Department of Labor's Employment & Training Administration. The product was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The U.S. Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to the information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership.



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