MACOMB COMMUNITY COLLEGE

MAP+ Industrial Readiness Certificate Program

Macomb Community College offers a certificate program that delivers foundational skill sets to students who are interested in beginning a manufacturing, skilled trades or apprenticeship career. For a limited time, the Industrial Readiness Certificate has a tuition-free cohort program for eligible applicants. If selected to participate in the Michigan Apprenticeship Program Plus (MAP+) Industrial Readiness Certificate program, you can:

- Earn a 9-credit Industrial Readiness Certificate
- Complete classes in a short time period with a consistent, compressed schedule
- Develop workplace skills in communication, critical thinking, resume writing and interview techniques
- Network with hiring employers

What is the outlook for skilled workers?

The supply of skilled workers in the U.S. is shrinking. Georgetown University Center on Education and the Workforce predicts a shortage of five million workers with technical certificates by 2020.

Why should I consider an apprenticeship or a career in manufacturing or construction?

- Gain access to employment with little or no student debt
- Achieve independence and build a career
- Use hands-on skills and earn a great starting salary

What will I learn?

You will take four classes to earn the Industrial Readiness Certificate. Courses are listed below and the course descriptions are on the back.

- ATAM-1150 Mathematics — Shop Arithmetic
- ATDD-1900 Drafting — Machine Tool Blueprint Reading
- ATTR-1600 Industrial Safety — Skilled Trades
- ATTR-1000 Trade Related Preparation

What if I want to further my education?

At Macomb Community College, your Industrial Readiness Certificate can lead to a skill-specific certificate. You can pursue an Associate of Applied Science degree in Manufacturing Technology, Maintenance Technology or Building Construction Technology. Transfer options are available with our university partners to earn your bachelor's degree.

Why Macomb Community College for Applied Technology & Apprenticeship?

Macomb Community College has been providing the instruction for apprenticeships for over 60 years. Many local employers take advantage of our customizable employee-in-training programs to offer students an employer-sponsored training program similar to an apprenticeship.

Is this program right for me?

Do you enjoy working with your hands? Do you have an analytical nature?
Would you prefer an active job over sitting behind a desk?
Would you like to earn money while you learn?
For more information, call 586.445.7438
or email apprenticeship@macomb.edu.

MAP+ Michigan Apprenticeship Program Plus

Macomb Community College
Education • Enrichment • Economic Development
Discover. Connect. Advance.℠

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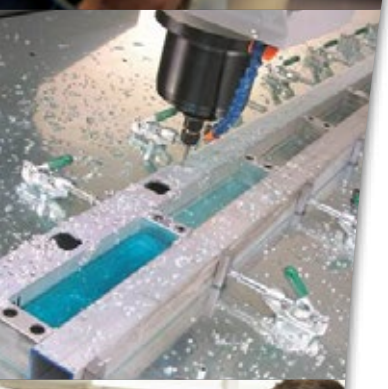

Applied Technology & Apprenticeship
Industrial Readiness Certificate

This certificate program delivers foundational skill sets to students who are interested in entering an apprenticeship or other employer-sponsored industrial training program. The successful completion of this certificate indicates to prospective employer sponsors that the student has the aptitude necessary to undertake the rigors of such a training program, and will also help candidates prepare for a potential program entrance exam. A student must earn a minimum 2.0 grade point in each course to receive this certificate.

Certificates will be awarded to students who successfully complete the following courses:

	COURSES	SUGGESTED SEQUENCE	CONTACT HOURS	CREDIT HOURS
ATAM-1150	Mathematics — Shop Arithmetic	■ □ □ □	32	2
ATDD-1900	Drafting — Machine Tool Blueprint Reading	■ □ □ □	32	2
ATTR-1600	Industrial Safety — Skilled Trades	■ □ □ □	32	2
ATTR-1000	Trade Related Preparation	□ ■ □ □	48	3
		Total	**144**	**9**

Course Descriptions

ATAM-1150 Mathematics — Shop Arithmetic 2.00 credit hours

Prerequisites: None. Review of basic arithmetic; whole numbers, fractions, decimals, signed numbers, grouping symbols, square root, ratio and proportion, flat and round tapers, simple and complex gear ratios. Practical industrial shop problems are employed. (2 contact hours) South Campus.

ATDD-1900 Drafting — Machine Tool Blueprint Reading 2.00 credit hours

Prerequisites: None. An introduction to blueprint reading; interpretation of various kinds of lines, position of views, symbols, conventions, dimensioning practices, sectioning, auxiliary views and symmetry with emphasis on techniques employed to show details in relation to assembly drawings. (2 contact hours) South Campus.

ATTR-1600 Industrial Safety — Skilled Trades 2.00 credit hours

Prerequisites: None. Encompasses safety/health rules, procedures, safety responsibilities, and hazard recognition associated with the following: lockouts, machine tools, machine guarding, hand tools, portable power tools, safe use of energy sources, powered trucks, material handling, hazardous materials, lifting, climbing, ladders, scaffolds, rigging, slings, ropes, cranes, hoists, and basic fire safety. Accident causation, impact, prevention, and basic human anatomy and physiology will be studied. (2 contact hours) South Campus.

ATTR-1000—Trade Related Preparation 3.00 credit hours

Prerequisites: ATDD-1900 and ATAM-1150. Preparation for a career in the trades is assessed through an overview of industrial processes. A review of math, blueprint reading, and measuring tools relative to shop application are major components of this course. Students receive diagnostic evaluation through testing in these major areas. (3 contact hours) South Campus.

For more information, please contact the Applied Technology & Apprenticeship Department at 586.445.7438 or apprenticeship@macomb.edu

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