

Machining & Manufacturing Technology Program Alignment – CIP: 48.0501

Effective: Fall 2024
Issued 12/16/22



Certificate A

16-29 Credit Hours

Machining & Mfg Technology Level 1

- Safety/OSHA 10 or 30
- Quality Control & Inspection
- Metallurgy
- Workplace Ethics
- Print Reading

Certificate B

30-44 Credit Hours

Machining & Mfg Technology Level 2

- Level 1 Requirements
- Bench Work
- CNC Operations
- Machining I or CNC Milling I

Certificate C

45-59 Credit Hours

Machining & Mfg Technology Level 3

- Level 2 Requirements
- Machining II or CNC Lathe
- Machine Tool Processes

A.A.S.

60-68 Credit Hours

Machining & Mfg Technology Degree

- Level 3 Requirements
- Minimum of 15 Credit Hours of General Education

Required Courses within Program

Common Courses **13-14 credits:**

Quality Control & Inspection	1 credit
Metallurgy	1 credit
Bench Work	1 credit
CNC Operations	3 credits
Machining I or CNC Milling I	3 credits
Machining II or CNC Lathe	3 credits
Machine Tool Processes	1-2 credits

Support Courses* **4-8 credits:**

Safety/OSHA 10 or 30	1-3 credits
Workplace Ethics	1-2 credits
Print Reading	2-3 credits

Course list sequence has no implication on course scheduling by colleges.

Institutions may add additional competencies based on local demand.

Competencies identified within the Common Courses and/or Support Courses represent opportunities for articulation with K-12.

*Institutions may utilize existing like course titles for Support Courses that adhere to the agreed upon course lengths.

Notes

Specifics pertaining to Machining & Manufacturing Technology programs:

1. Add courses as needed specific to local B&I needs to meet the minimum credit hours at each level.