

# Machining & Manufacturing Technology Program Alignment

CIP: 48.0501 - Kansas Board of Regents

2022

Implement by  
Fall 2024

## Machining & Mfg Technology - Level 1

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

**Certificate A**  
16-29 Credit Hours

## Machining & Mfg Technology - Level 2

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

**Certificate B**  
30-44 Credit Hours

## Machining & Mfg Technology - Level 3

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

**Certificate C**  
45-59 Credit Hours

## Machining & Mfg Technology Degree

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

**A.A.S.**  
60-68 Credit Hours

### ***Required Courses within Program***

<u>Common Courses</u>	<u>13-14 credits:</u>
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
<u>Support Courses</u>	<u>4-8 credits:</u>
Safety/OSHA 10 or 30	1-3 credits
Workplace Ethics	1-2 credits
Print Reading	2-3 credits

### **Notes**

Specifics pertaining to Machining & Manufacturing Technology programs:

1. Competencies identified within the Common Courses represent opportunities for articulation with K-12.
2. Add courses as needed specific to local B&I needs to meet the minimum credit hours at each level.
3. Course list sequence has no implication on course scheduling by colleges.
4. Institutions may add additional competencies based on local demand.
5. Institutions may use existing course titles for Support Courses that adhere to the agreed upon course length and competencies.