Machine Technology Program Alignment – Kansas Board of Regents
CIP: 48.0501

2010
03/26/10
Amended 01/15/13

Machine Technology Level 1

- OSHA 10 or 30 card
- Measurement, Materials, and Safety (NIMS Level I)
- One Additional Credential from the Following Options:
  - Job Planning, Benchwork & Layout (NIMS Level I)
  - CNC Turning: Operations (NIMS Level I)
  - CNC Milling: Operations (NIMS Level I)
  - Manual Milling Skills I (NIMS Level I)
  - Manual Milling Skills II (NIMS Level II)

→ **Certificate A**
Maximum of 29 Credit Hours

Machine Technology Level 2

- Level 1 Requirements
- One Additional Credential from NIMS Machining Level I or Level II List *(see page 2)*

→ **Certificate B**
Maximum of 40 Credit Hours

Machine Technology Level 3

- Level 1 Requirements
- Two Additional Credentials from NIMS Machining Level I or Level II List *(see page 2)*

→ **Certificate C**
Maximum of 49 Credit Hours

Machine Technology Degree

- Level 1 Requirements plus Two Additional Credentials from NIMS Machining Level I or Level II List *(see page 2)*
- 15 Credit Hours of General Education (minimum)

→ **A.A.S.**
Maximum of 64 Credit Hours for State Funding

Required Courses within Program

Common Courses	***17-25 credits:***
Safety (OSHA 10 or 30)	***1-3 credits***
Workplace Ethics	***2-3 credits***
Print Reading	***2-3 credits***
Quality Control & Inspection	***1 credit***
Metallurgy	***1 credit***
CNC Operations	***3 credits***

Additional Common Courses (Choose from Track I or II)

Track I:	
Bench Work	***1 credit***
Machine Tool Processes	***1 credit***
Machining I	***3 credits***
Machining II	***3 credits***

Track II:	
CNC Milling I	***3 credits***
CNC Lathe	***3 credits***

****Math Requirement***	***1-3 credits***

****The state faculty committee chose to leave the course name and competencies associated with the Math Requirement to the discretion of individual colleges***

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

Notes

Specifics pertaining to Machine Technology programs:

1. Competencies identified within the common courses represent opportunities for articulation with K-12.
2. Colleges are encouraged to seek accreditation from the National Institute for Metalworking Skills (NIMS).
3. Colleges are "encouraged" to recommend other NIMS credentials to students completing the AAS to meet regional and local needs.
4. See page two for information regarding credential options.

National Institute for Metalworking Skills (NIMS) Current Credential Listing* (August 2011)	
Machining Level I	Measurement, Materials & Safety Job Planning, Benchwork & Layout Manual Milling Skills I Turning Operations: Turning Between Centers Turning Operations: Turning Chucking Skills Grinding Skills I Drill Press Skills I CNC Turning: Programming Setup & Operations CNC Milling: Programming Setup & Operations CNC Turning: Operations CNC Milling: Operations
Machining Level II	Manual Milling Skills II Turning II (manual) Drill Press Skills II Grinding Skills II CNC Milling Skills II CNC Turning Skills II EDM – Wire EDM – Plunge

*Source: National Institute for Metalworking Skills *"Complete Guide to NIMS Credentialing Program"*; https://www.nims-skills.org/c/document_library/get_file?folderId=230729&name=DLFE-3805.pdf