



South Central College

MTT 2240 Applications III

Course Outcome Summary

Course Information

Description	This course is a continuation of Applications, new topics include alternative work holding and advanced tooling set-up and operation for production of capstone projects. (Prerequisite: MTT 2140)
Total Credits	3
Total Hours	96

Types of Instruction

Instruction Type	Credits/Hours
Lab	3/96

Pre/Corequisites

MTT 2140

Institutional Core Competencies

Communication - Students will be able to demonstrate appropriate and effective interactions with others to achieve their personal, academic, and professional objectives.

Critical and Creative Thinking - Students will be able to demonstrate purposeful thinking with the goal of using a creative process for developing and building upon ideas and/or the goal of using a critical process for the analyzing and evaluating of ideas.

Course Competencies

1. Describe the grinding magnet

Learning Objectives

- Dial in magnet
- Dial in magnet fence
- Describe grinding magnet flat

2. Describe grinding to print

Learning Objectives

- Illustrate grinding perpendicular to +or- .0003
- Illustrate grinding parallel to +or- .0003

3. Identify the grinding wheel dresser

Learning Objectives

Demonstrate "True" a grinding wheel
Demonstrate side dress a grinding wheel

4. Describe form dressing

Learning Objectives

Demonstrate form dressing an outside radius on a grinding wheel
Demonstrate form dressing an angle on a grinding wheel

5. Describe grinding a radius

Learning Objectives

Illustrate grinding an inside radius
Illustrate grinding an outside radius

6. Select proper grinding wheel

Learning Objectives

Demonstrate balancing grinding wheel
Demonstrate mounting wheel on grinder

7. Demonstrate the ability to meet deadlines

Learning Objectives

Practice employable attendance habits
Practice employable punctuality habits

8. Identify general purpose turning and milling tools

Learning Objectives

Use high speed tooling
Use carbide inserted tooling

9. Exhibit lab safety

Learning Objectives

Use proper dress code and eye glasses
Demonstrate shop clean-up

10. Demonstrate advanced set-up of lathe and mill

Learning Objectives

Demonstrate proper set-up and clamping of parts from industry
Locate industry part using blueprints and appropriate tools

SCC Accessibility Statement

South Central College strives to make all learning experiences as accessible as possible. If you have a disability and need accommodations for access to this class, contact the Academic Support Center to request and discuss accommodations. North Mankato: Room B-132, (507) 389-7222; Faribault: Room A-116, (507) 332-7222.

Additional information and forms can be found at: www.southcentral.edu/disability

This material can be made available in alternative formats by contacting the Academic Support Center at 507-389-7222.