COMMON COURSE OUTLINE: Course discipline/number/title: PMT 1205: Basics of CNC Turning

A. CATALOG DESCRIPTION
1. Credits: 1
2. Hours/Week: 1/16
3. Prerequisites (Course discipline/number): None
4. Co-requisites (Course discipline/number): MATH 1015, CAD 1230, CAD 1050, PMT 1155
5. MnTC Goals (if any): None

This course describes the basic components of a CNC turning center and various devices used on the machine.

B. DATE LAST REVISED (Month, year): April, 2009

C. OUTLINE OF MAJOR CONTENT AREAS:
1. What is the CNC Lathe?
2. History of the CNC Lathe
3. Types of Turning Centers
4. How the Turning Center Works
5. Cutting Variables
6. Outer Diameter Operations
7. Inner Diameter Operations
8. Cutting Tools for the Turning Center
9. Toolholders for the Turning Center
10. The Turret of the Turning Center
11. Workholders for the Turning Center

D. LEARNING OUTCOMES (GENERAL): The student will be able to:
Understand, describe and use the basic components of a CNC turning center.

E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:
1. Online Learning.
2. Successful completion of online lessons.
3. Successful completion of online assignments.

G. RCTC CORE OUTCOME(S) ADDRESSED:
- Communication
- Critical Thinking
- Global Awareness/Diversity
- Civic Responsibility
- Personal/Professional Accountability
- Aesthetic Response

H. SPECIAL INFORMATION (if any):
All numbered courses ending with a 5 (Example: 0005) will be online classes provided by Tooling U. Please see link below: