INTRODUCTION TO MACHINING
Course Syllabus

Course Number: NCMT-1682
OCAS Code: None
Course Length: 45 Hours
Career Cluster: Machining
Career Pathway: Production
Career Major(s): Certified Machine Technician

Pre-requisite(s): This course covers an introduction to machining and manufacturing, a history of machining as well as how the machining industry is evolving. Students will participate in discussions about the role of machining in our society and will be introduced to the basic types and principles of machining processes. Different types of machines and their particular functions and advantages will be discussed as well as opportunities of careers in machining.

Textbooks: Instructor developed curriculum – on Blackboard site

Course Objectives: A. Introduction to the Machining Field
1. Define machining.
2. Discuss the history of machining.
3. Discuss the role of machining in society.
4. State the major types of machine tools.

B. Discuss Careers in Machining.
1. Modern machining careers.
2. Discuss careers related to machining.

C. State Methods of Developing Workplace Skills.
1. Discuss personal skills
2. Discuss technical skills.
3. Training opportunities and methods.
4. Job seeking.

ODCTE objectives

Teaching Methods: The class will primarily be taught by the lecture and demonstration method and supported by various media materials to address various learning styles. There will be question and answer sessions over material covered in lecture and media presentations. Supervised lab time is provided for students to complete required projects.
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Grading Procedures:
1. Students are graded on theory and shop practice and performance.
2. Each course must be passed with seventy (70%) percent or better.
3. Grading scale: A=90-100%, B=80-89%, C=70-79%, D=60-69%, F=50-59%.

Description of Classroom, Laboratories, and Equipment:
Tulsa Technology Center campuses are owned and operated by Tulsa Technology Center School District No. 18. All programs provide students the opportunity to work with professionally certified instructors in modern, well-equipped facilities.

Available Certifications/College Credit:
The student may be eligible to take state, national or industry exam after completion of the program. College credit may be issued from Oklahoma State University-Okmulgee or Tulsa Community College. See program counselor for additional information.

College Credit Eligibility:
The student must maintain a grade point average of 2.0 or better.