DRILL PRESS
Course Syllabus

Course Number: NCMT-1685  OHLAP Credit: No
OCAS Code: None
Course Length: 30 Hours
Career Cluster: Machining
Career Pathway: Production
Career Major(s): Certified Machine Operator, Certified Machine Technician

Pre-requisite(s): The student will learn drill press safety and operation. Student will learn to calculate speed and feeds; perform drilling, reaming, tapping and other operations to print specifications.

Textbooks: Instructor developed curriculum – on Blackboard site

Course Objectives:
A. Introduction to the Drill Press
   1. Upright Drill Press
   2. Radial-Arm Drill Press

B. Tools, Toolholding and Workholding for the Drill Press
   1. Types of Cutting-Tool Materials
   2. Drill Bits
   3. Reamers
   4. Countersinks and Counterbores
   5. Toolholding
   6. Workholding

C. Drill Press Operations
   1. General Drill Press Safety
   2. Speed and Feed
   3. Locating Holes on the Drill Press
   4. Center Drilling and Spot Drilling
   5. Drilling
   6. Reaming
   7. Counterboring and Spotfacing
   8. Chamfering and Countersinking
   9. Tapping

NIMS/TTC 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.

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.