

OET 010– MANUFACTURING PROCESSES

<i>Credit Hour Recommendation:</i> 3 Semester Hours
<i>Pre-Requisite:</i> None
<i>Related TAG:</i> Mechanical/Manufacturing Engineering Technology
<i>General Course Description:</i> The focus of this course is to provide the student with an introduction to common major manufacturing processes. Students will study and gain practical experience in various manufacturing processes such as metrology, materials, heat-treating, machine operations, metal forming, extrusions, castings, welding, finishing, adhesion, fasteners, assembly, and applications of empirical data to determine speeds and feeds to optimize production efficiencies. Learning outcomes are achieved through various in class and laboratory experiences.
Student learning outcomes marked with an asterisk (*) are essential and must be met.
1. Demonstrate an understanding of the interrelationships between material properties and manufacturing processes.*
2. Distinguish between different manufacturing processes such as forgings, extrusions, castings, forming, and finishing.*
3. Distinguish between different fabrication processes such as welding, fasteners, and adhesives.*
4. Apply process parameters to optimize production efficiencies.*
5. Demonstrate appropriate safety procedures and methods in a manufacturing setting.*
6. Demonstrate proficiency in the use of measurement instruments.*

**MECHANICAL/MANUFACTURING ENGINEERING TECHNOLOGY TAG:
MANUFACTURING PROCESSES
FACULTY PARTICIPANTS
August-September 2016**

Name	Institution
Dan Burklo (Lead)	Northwest State Community College
Sudershan Jetley	Bowling Green State University
Shane Bendele	Columbus State Community College
Thomas Looker	Edison State Community College
Rob Speckert	Miami University
Scott Dilling	The University of Akron
Janet Dong	University of Cincinnati
Randy Wharton	Zane State College