

# MANUFACTURING FOUNDATION

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## Certificate of Completion #43753

This certificate provides a foundation of basic skills for employment in a variety of entry-level manufacturing positions. Courses in this program include an Introduction to Mechanical Principles, Print Reading and Shop Practice, Manual Machining I, and Manual Machining II. Upon completion of this program, students will earn a Certificate of Completion in Manufacturing Foundation.

### Program Learning Outcomes

- Students will be technically competent.
- Students will be employed or seek employment in the field or a related field..
- Students will demonstrate ability to perform basic mill and lathe setup and operation and machine a simple industry representative component from a 2D print.

Review Student Learning Outcomes (SLOs) (<http://www.mtsac.edu/instruction/outcomes/sloinfo.html>) for this program.

### Required Courses

Course Prefix	Course Name	Units
VOC MF140	Print Reading and Shop Practice	
VOC MF150	Manual Machining 1	
VOC MF155	Manual Machining 2	
VOC MF160	Introduction to Mechanical Principles	