

MFG 216 : LATHE OPERATOR II

Transcript title

Lathe Operator II

Credits

2

Grade mode

Standard letter grades

Contact hours total

60

Lab hours

60

Prerequisites

instructor approval.

Recommended preparation

MFG 100.

Description

Advanced lathe operations training. Four-jaw chucking, taper turning, carbide cutting tool selections, boring, single point threading, thread measurement and other precision turning operations.

Learning outcomes

1. Student will perform regular lathe maintenance duties including fluid level checks to extend lathe duty cycle.
2. Student will setup and bore steel soft jaw chucks to hold rotated part concentricity.
3. Student will setup and adjust the taper attachment to cut long tapers to within .002" diametrical accuracy.
4. Student will setup and perform single point thread cutting operations to cut threads to Class 2 threading specifications.
5. Student will utilize the thread micrometer, thread ring gages and 3 wires to check thread accuracy.
6. Student will perform boring operations to within .001" of diameter callout.
7. Student will use various lathe accessories that provide support for longer chucked work.
8. Student will setup and consistently machine work held between centers to within .001".