

# MFG 277 : PRODUCTION CNC OPERATIONS LATHE

---

## Transcript title

Production CNC Ops Lathe

## Credits

3

## Grading mode

Standard letter grades

## Total contact hours

70

## Lecture hours

10

## Lab hours

60

## Prerequisites

MFG 259 and MFG 260.

## Prerequisites with concurrency

MFG 261 and MFG 278.

## Course Description

Provides opportunities to evaluate the efficiency of a parts manufacturing process using a lathe. Covers methods to improve efficiency.

## Course learning outcomes

1. Analyze run time of computer numerical control lathe machines to improve efficiency.
2. Improve efficiency of computer numerical control lathe machines.
3. Communicate how efficiency improvements were made.

## Content outline

- Efficiency of computer numerical control (CNC) machines
- How cutter technology can improve efficiency
- Affects of coolant and speeds and feeds
- How part material and chip removal effect efficiency

## Required materials

Required textbook.