

# MAC 161 Machine Shop Practices I

**Instructor:** Ed Morris (MSME)

Credentialed: EGR, MEC, CAD, IND, MAC

**email:** morrise@tncc.edu

**Office Phone:** 757-825-3624

**Class Website:** www.tncc.edu

**Office Location:** Hastings 322

**Office Hours:** by appointment

**Methods of Instruction:** Lecture/Lab

**Course Description:** Introduces safety procedures, bench work, hand tools, precision measuring instruments, drill presses, cut-off saws, engine lathes, manual surface grinders, and milling machines. Part I of II.

Additional course description: This course teaches the student identification, nomenclature, and the safe use of basic machine tools and measuring instruments necessary to become a machinist.

## Learning Outcomes:

- Demonstrate knowledge of proper safety procedures in the machine shop.
- Demonstrate the ability to use basic hand tools and measurement tools.
- Demonstrate the proper use of sawing machines, belt sanders, and pedestal grinders
- Demonstrate the proper use of drilling machines.
- Demonstrate the proper use of the engine lathe.
- Demonstrate the proper use of the vertical milling machine.

**Prerequisite/Corequisite:** School Principal Approval and/or Division Approval

## Course Textbook(s): Precision Machining Technology, 3rd Edition

Peter J. Hoffman; Eric S. Hopewell

ISBN-10: 1-337-79530-5

ISBN-13: 978-1-337-79530-2

## Student Workbook and Project Manual for Precision Machining Technology

ISBN-13: 9781337795319

## Grading/Evaluation Procedures:

Grading Scale: A= 89.6 – 100.0 B= 79.6 – 89.5 C= 69.6 – 79.5 D= 59.6 – 69.5 F= 0 – 59.5	Coursework: Employability 30% Machining Labs 30% Homework/Quizzes 10% Tests 15% Final Exam (NIMS Certification Exam I) 15%
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