

# Dakota County Technical College

## HCEM 1101: General Shop Mechanics - Introduction

### A. COURSE DESCRIPTION

Credits: 2

Lecture Hours/Week: 1

Lab Hours/Week: 1

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Students achieve a basic understanding of skills needed in the heavy equipment field. Some areas covered are safety, hand and power tools, hand tool projects, flaring, soldering, gears, chains, bearings, seals, fuels, lubricants, fasteners, fittings, wires and connectors, belts, pulleys, couplings, and precision measuring instruments. Prerequisites: None

**B. COURSE EFFECTIVE DATES:** 03/22/1998 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

### D. LEARNING OUTCOMES (General)

1. explain fitting types
2. administer forklift safety training
3. demonstrate shop safety
4. demonstrate use of proper blocking techniques
5. demonstrate use of lifting equipment
6. demonstrate safe lifting techniques C
7. explain tap and drill chart
8. demonstrate use of hand tools
9. explain fastener types
10. explain sealants
11. demonstrate professionalism
12. construct hand tool projects

### E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted