



GENERAL SHOP MECHANICS - INTRODUCTION — HCEM 1102

A. Course Description

- **Credits:** 3.00
- **Lecture Hours/Week:** 1.00
- **Lab Hours/Week:** 2.00
- **OJT Hours/Week:** 0
- **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: 8/21/17 – Present

C. Outline of Major Content Areas

As noted on course syllabus

D. Learning Outcomes

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

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

F. Learner Outcomes Assessment

As noted on course syllabus

G. Special Information

None noted