



## PRINT READING I — WELD 1150

### A. Course Description

- **Credits:** 3.00
- **Lecture Hours/Week:** 3.00
- **Lab Hours/Week:** 0.00
- **OJT Hours/Week:** 0
- **Prerequisites:** None
- **Corequisites:** None
- **MnTC Goals:** None

In this course students learn to interpret drawings related to the manufacture of metal products from simple single part drawings to more complex multi-part drawings. Students learn welding symbols, drawing symbols, material specifications, and basic fabrication methods used on blueprint drawings.

### B. Course Effective Dates: 8/27/12 – Present

### C. Outline of Major Content Areas

As noted on course syllabus

### D. Learning Outcomes

1. Calculate dimensions with tolerances.
2. Explain how drawings are used by developers of a product in all steps of the manufacturing process .
3. Identify different types of engineering drawings and explain the terms used.
4. Identify metal classifications as listed on a bill of materials.
5. Identify notes and specifications and hole types on engineering drawings.
6. Identify the difference between pictorial and orthographic projections and their use in basic drawing views.
7. Identify the different types of lines used on engineering drawings.
8. Interpret additional views that vary from basic drawing views.
9. Interpret basic weld symbols used on engineering drawings.

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

### F. Learner Outcomes Assessment

As noted on course syllabus

## G. Special Information

None noted