



South Central College

WELD 1108 Advanced Blueprint Reading

Common Course Outline

Course Information

Description	Students will be expanding what was learned in the Introduction to Welding certificate. This class will also add new blueprints that have to do with Fabrication. Blueprints used in this class will also be used to build weldments used in the advanced welding classes. (Prerequisite: WELD 1007 Blueprint Reading or equivalent from another technical college or instructor approval)
Total Credits	2
Total Hours	32

Types of Instruction

Instruction Type	Credits/Hours
Lecture	2/32

Pre/Corequisites

WELD 1007 Blueprint Reading or equivalent from another technical college or instructor approval.

Institutional Core Competencies

Communication - Students will be able to demonstrate appropriate and effective interactions with others to achieve their personal, academic, and professional objectives.

Critical and Creative Thinking - Students will be able to demonstrate purposeful thinking with the goal of using a creative process for developing and building upon ideas and/or the goal of using a critical process for the analyzing and evaluating of ideas.

Course Competencies

1. **Demonstrate knowledge of how to figure out scale, weld symbols and line types from what was learned from on the job or the earlier blueprint class.**

Learning Objectives

Identify specific types of line types and welding symbols.

Verify that the most current print is being used for the weldment.

Demonstrate the various parts of the title block to obtain scale, tolerance, part name and revisions.

2. **Obtain prints from local businesses and learn the different ways blueprints may be drawn or used.**

Learning Objectives

Obtain old prints from business partners to demonstrate the different ways that prints may be drawn from company to company.

Learn how to identify the components of the print that are needed to weld the weldment.

3. **Demonstrate from reading the bill of materials that all the parts for the weldment are there and cut, punched, drilled and formed to match the print.**

Learning Objectives

Identify the parts of the weldment to verify the correct number and the parts are cut to length.
Examine each part to ensure that each piece is drilled, punched and formed.
Ensure that the correct material is being be used.

4. **Explain how to ensure that the blueprint being used for the weldment is the latest release blueprint.**

Learning Objectives

Examine the job sheet for the weldment and determine if the current version of the blueprint is being used.
Explain where to look on a blueprint to find if the blueprint is the latest version released.

5. **Examine the various layouts of blueprints by comparing different local company blueprints.**

Learning Objectives

Demonstrate the ability to look at a blueprint and recognize the differences in print layout between companies.

6. **Demonstrate how to read a blueprint by welding the weldment correctly to scale and weld size.**

Learning Objectives

Utilizing a blueprint from a book or business partners blueprint, weld that weldment to scale.
Demonstrate proper weld size and tolerance according to the print.
Inspect weldment against print dimensions.

SCC Accessibility Statement

South Central College strives to make all learning experiences as accessible as possible. If you have a disability and need accommodations for access to this class, contact the Academic Support Center to request and discuss accommodations. North Mankato: Room C-112, (507) 389-7222; Faribault: Room A-116, (507) 332-5847.

Additional information and forms can be found at: www.southcentral.edu/disability

This material can be made available in alternative formats by contacting the Academic Support Center at 507-389-7222.