



South Central College

WELD 1208 Blueprint for Fabricators

Common Course Outline

Course Information

Description	Students will cover the basics of fabrication blueprints. Students will be able to incorporate what they learn in this class and apply it to the Fabrication II class. (Prerequisite: Must be enrolled in Welding Fabrication Certificate or instructor approval.)
Total Credits	2
Total Hours	32

Types of Instruction

Instruction Type	Credits/Hours
Lecture	2/32

Pre/Corequisites

Must be enrolled in Welding Fabrication Certificate or Approval from Instructor.

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

- Demonstrate knowledge of how read the title block to ensure it is the correct print for the part.**
Learning Objectives
Identify specific types of line types and fabricating symbols that are used on the print.
Verify that current print is being used for the fabricated part.
Demonstrate the various parts of the title block to obtain scale, tolerance, part name and revisions.
- Examine the different layout of blueprints by comparing local company prints.**
Learning Objectives
Demonstrate the ability to look at a blueprint and recognize the differences in print layout between companies.
- Explain how to ensure that the blueprint being used for the part to be fabricated is latest released print.**

Learning Objectives

Examine the job sheet for the part to be fabricated and determine if the current version of the blueprint is being used.

Explain where to look on a blueprint to find if the print is the latest version released.

- 4. Demonstrate from reading the bill of materials that all the parts are cut, punched, drilled and formed to match the blueprint.**

Learning Objectives

Identify the parts for fabrication to verify the correct number and the parts 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.

- 5. Identify any special instructions or notes that are found on blueprints.**

Learning Objectives

Identify any special instructions that must be followed when forming the part.

Identify any special symbols or notes that maybe found on the blueprint.

- 6. Demonstrate how to read a blueprint by fabricating the part(s) to match the print.**

Learning Objectives

Utilizing a blueprint from a book or business partners blueprint, fabricate the part to meet the specifications of the print.

Demonstrate proper radiuses, angles, and tolerance according to the blueprint.

Inspect fabricated part 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.