South Central College

WELD 1007  Blueprint Reading for Welding

Course Outcome Summary

Course Information

Description
This course will expand on basic blueprint reading by utilizing skills and knowledge about symbols, charts, and measurements to work more closely with blueprints specific to Welding. (Prerequisite: None)

Total Credits
2

Total Hours
32

Types of Instruction

Instruction Type
Credits/Hours

Lecture
2 / 32

Pre/Corequisites

None

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. Utilize typical measuring and scale methods utilized in prints and drawings.
   Learning Objectives
   - Identify specific types of blueprints and welding symbols.
   - Interpret basic blueprints and schematics.
   - Use mechanical and fabrication designs and working drawings.

2. Identify the different lines, symbols, and views used on a print.
   Learning Objectives
   - Identify the different types of lines that are used in a drawing.
   - Identify the American Welding Society (AWS) weld symbols used on a print.
   - Practice working with one dimensional and three view prints.
3. **Use basic blueprints and sketches in regard to welding projects.**
   
   **Learning Objectives**
   Select parts necessary for welding fabrication based on content of blueprints.
   Incorporate tables and charts in calculations.

4. **Demonstrate how to figure out a bill of materials from reading a print.**
   
   **Learning Objectives**
   List the pieces needed to build the weldment.
   Assign a part number for each piece of the weldment.
   List the quantity of each piece and weight if needed.

5. **Sketch a print to scale from a weldment.**
   
   **Learning Objectives**
   Sketch a print to scale using a weldment from class.
   Use all the proper symbols in the print.
   Incorporate all components of sketching a print.

6. **Weld a weldment from a print.**
   
   **Learning Objectives**
   Utilizing a blue print from a book or student's blue print, weld that weldment to scale.
   Demonstrate proper weld size and tolerance according to the print.
   Inspect weldment against print dimensions.

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**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 B-132, (507) 389-7222; Faribault: Room A-116, (507) 332-7222.

Additional information and forms can be found at: [www.southcentral.edu/disability](http://www.southcentral.edu/disability)

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