South Seattle Community College

Welding Fabrication Technology

Program Outcomes

1. Select and demonstrate various joining processes. (SI-05.1)
2. Identify and demonstrate common power tools, and accessories. (SLO 5.1)
3. Read and interpret fabrication blueprints using a systematic process. (SLO 1. 1 & 2.2)
4. Perform basic layouts using template paper and patterns. (SLO 7.2)
5. Estimate type, quantity, costs, weight, of a welded fabrication from information on a blueprint. (SLO 2.3 & 7.1)
6. Describe and demonstrate safe and proper use of each type of welding equipment. (SLO 6.4)
7. Identify major parts, set up and adjust the press brake for a variety of forming operations. (SLO 7.2)
8. Demonstrate proper transport, set up, adjustment and use of Shielded Metal Arc Welding, oxyacetylene equipment. (SLO 5.1)
9. Demonstrate techniques and devices-for controlling heat effect during welding. (SLO 5.1)
10. Recognize, inspect and document proper applications of welding processes. (SLO 6.5 & 7.2)
11. Demonstrate proficiency of maintenance and repair operations using welding and joinery procedures. (SI-04.1)
12. Describe employer expectations for employees within the welding industry. (SLO 1.2)
13. Use current industry technology to test and repair welding related equipment. (SLO 5.1& 7.1)
14. Consistently use equipment safely in the performance of welding and joinery. (SLO 6.1)

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Student Learning Outcomes (SLO)

STUDENT LEARNING OUTCOMES are the knowledge and abilities every student graduating with a certificate or degree from South Seattle Community College will have. Students will achieve these outcomes as well as the specific curriculum outcomes for their academic or technical area of study.

1. Communication

- 1.1 Read and listen actively to learn and communicate.
- 1.2 Speak and write effectively for personal, academic and career purposes.

2. Computation

- 2.1 Use arithmetic and other basic mathematical operations as required by program of study.
- 2.2 Apply quantitative skills for personal, academic, and career purposes.
- 2.3 Identify, interpret and utilize higher level mathematical and cognitive skills (for those students who choose to move beyond the minimum requirements are stated above).

3. Human Relations

- 3.1 Use social interactive skills to work in groups effectively.
- 3.2 Recognize the diversity of cultural influences and values.

4. Critical Thinking and Problem-Solving

- 4.1 Think critically in evaluating information, solving problems and making decisions.

5. Technology

- 5.1 Select and use appropriate technological tools for personal, academic and career tasks.

6. Personal Responsibility

- 6.1 Be motivated and able to continue learning and adapt to change.
- 6.2 Value one's own skills, abilities, ideas and art.
- 6.3 Manage personal health and safety.
- 6.4 Be aware of civic and environmental issues.

7. Information Literacy

- 7.1 Access and evaluate information from a variety of sources and contexts, including technology.
- 7.2 Use information to achieve personal, academic, and career goals, as well as to participate in a democratic society.