WE1043, Welding Print Reading

Credits 3 **Lab Hours** 3 **Lecture Hours** 1 **Clinical Hours** 0
Course Description
Entry Level occupational Blueprint Reading and Weld Symbol Interpretation for Welders wishing to pursue a career in Welding. Prepare parts from simple sketches or drawings and performs weld operations for the completion of detail assignments. Welders wishing to pursue a career in Welding need follow; safe practices, perform housekeeping duties, and follow verbal, written work instructions for the completion of detail assignments

For each unit of credit, a minimum of three hours per week with one of the hours for class and two hours for studying/ preparation outside of class is expected.

Program and/or Department Mission Statement
The Industrial Technology Division is a committed leader in innovative workforce development by meeting the dynamic needs of business and industry through the development of student-centered education, technical excellence, and citizenship.

Academic Year AY2024-25

SCCC Outcomes
Outcome #6: Exhibit skills in information and technological literacy.

Outcome #9: Exhibit workplace skills to include respect for others, teamwork competence, attendance/punctuality, decision making, conflict resolution, truthfulness/honest, positive attitude, judgment, responsibility.

Course Outcomes

1. Interpret basic elements of a drawing or sketch
2. Interpret welding symbol information
3. Fabricate parts from a drawing or sketch
4. Follow verbal, written work instructions for the completion of detail assignments.

Course Outline
Welding print reading book

AWS Sense Blueprint Test

NCCER Blueprint Test

1. Ch 1 Prints
2. Ch 2 Measurements
3. Ch 3 Fractions and decimals
4. Ch 4 Alphabet of lines
5. Ch 5 Understanding prints
6. Ch 6 Types of prints
7. Ch 7 Print format
8. Ch 8 Basic plane geometry
9. Ch 11 Threaded fasteners
10. Ch 12 Structural metals
11. Ch 13Common types of weld joints
12. Ch 14 Welding symbols
13. Ch 15 Fillet welds
14. Ch 16 Groove welds
15. Ch 17 Plug and slot welds
16. Ch 18 Spot, Seam, and Projection welds
17. Ch 19 Surfacing welds
18. Ch 20 Edge welds

19. Ch 21 pipe welds
20. Ch 22 Brazed joints
21. Ch 23 Basic metalworking
22. Ch 24 Examining and testing welds
23. Ch 25 Print reading activities

Instructional Methods

1. Lecture
2. Class Discussions
3. Homework

Instructional Resources and Materials

1. Classroom handouts
2. Blueprint textbook

Methods of Assessment

1. Outcome 6 is assessed by homework and completion of AWS level 1 Blueprint test 70% minimum.
2. Outcome 9 is assessed by attendance, class participation, punctuality, demonstrate respect for others, and following directions.

SCCC Policy

Academic Calendar
View the Academic Calendar

Final Exams
View the Final Exam Schedule

Academic Integrity
View the Honor Code Policy

Technical Help
Technical support is available by contacting the SCCC IT Department at itech@sccc.edu

Canvas Help: canvashelp@sccc.edu

View Computer Minimum Requirements

Americans with Disabilities Act (ADA) Statement
Under the Americans with Disabilities Act, Seward County Community College will make reasonable accommodations for students with documented disabilities. If you need support or assistance because of a disability, you may be eligible for academic accommodations. Students should identify themselves to the Mental Health Counselor at 620-417-1106 or go to the Student Success Center in the Hobble Academic building, room A149.