

### **Instructor Information**

**Name: Mr. Zinn**

**E-mail address: zinna@davenportschools.org**

**School phone number: 386-5500**

**Best times to be reached: 7:00-10:00 am via phone.**

### **Course Description**

The fourth and final course in the welding program designed to further the skills learned through the previous welding programs. This program is tailored to meet the demands of local industry and allows students a great deal of freedom and flexibility in their studies. Self-guidance and responsibility work hand-in-hand to create the best high school welding students in the state of Iowa.

### **District Standards and Power Benchmarks**

#### **Power Standards**

Students will be able to:

1. Utilize hand tools in their proper application in a safe manner.
2. Set up and troubleshoot welding parameters.
3. Complete welds in the major processes: SMAW, GMAW, GTAW.
4. Operate efficiently in a full functioning manufacturing environment

#### **Power Benchmarks**

Students will be able to:

1. Complete the Confined Space Welding Permit requirements.
2. Complete the Hot Work Permit requirements.
3. Proper shielding gas selection is a vital component in the training of a welder.
4. Metallurgy greatly affects the decisions made regarding the parameters required to complete a weld.
5. Non-destructive testing techniques are a vital component of a successful weld.
6. Complete 10 hour OSHA certification course.
7. Safety coordination of a jobsite is the single most important component affecting the bottom line of a project.
8. Produce a complete weld shop safety orientation video.
9. Underwater welding is a career path students may like to explore.
10. Successful completion of a Welding Procedure Sheet referencing a recognized welding code.

### **Course Information**

Early bird and first block. Monday-Friday. 2 ½ hours each day. This an elective course worth 3.0 credits towards graduation. Failures at grading terms are removed from the program.

### **Course Outline**

Occupational Safety.  
Blueprint Reading.  
Cutting Operations.  
SMAW Welding.  
GMAW Welding.  
GTAW Welding.  
Plasmcam Instruction.  
Final Project.

### **Text/Other Required Materials/Resources**

Text: Welding Skills  
Required Equipment: Leather gloves, safety glasses, appropriate attire.

### **Instructional Procedures & Support**

This class is largely a lab based class with individual student work in the weld booths taking place nearly everyday. A lecture format will be used when necessary and homework will be required. Attendance will be the major component in successful completion of the course and all assignments will be completed before welding will be allowed, no exceptions.

### **Classroom Management Procedures**

The welding lab is a strict environment with freedoms provided only after respect for classroom rules and regulations are met and maintained.

### **Assessment Plan**

Students will be able to estimate their placement on the grading scale daily by referencing a grade chart. Mid-quarter reports will also be sent home to parents as well as the quarterly grade. Grades will be based on averaging the top three student point totals and basing the scale from that point.

### **Grading System**

The Davenport Community Schools' district percentage grading scale is as follows:

A	92-100%
B	83-91%
C	68-82%
D	60-67%
F	0-59%