**A.W.S. Structural Code For Welders**

**WD4.291**

Syllabus

***Notice: The following is subject to change per Coronavirus updates/mandates.***

**Instructor:** Dean Dowless **Office:** IA-106  **Instructor Contact Info:** dowlesd@linnbenton.edu

Required course for 2nd Year Welding and Fabrication Technology students. This 1-credit course familiarizes the Welding and Fabrication Technology student with select concepts and areas of the American Welding Society D1.1 Structural Welding Code including inspection and weld acceptability criteria, qualification and use of Welding Procedures, welding and fabrication practices, and use of prequalified weld joints.

1. **1. Required Items (furnished by the student):**

Textbook: None required.

Safety Glasses with side shields\* (see **2.** **Format** Section below)

Leather welding gloves with long gauntlet sleeves (see **2.** **Format** Section below)

High Top Hard Top Boots (no tennis shoes) (see **2.** **Format** Section below)

Suitable clothing that is non-flammable (see **2.** **Format** Section below)

Pen or pencil and notebook or folder with paper for taking notes (see **2.** **Format** Section below)

Optional, recommended: Ear plugs (see **2.** **Format** Section below)

\*Note: Safety glasses are required to be worn all times in the shop, including

under welding helmets, goggles, and face shields.

**2. Format:**

This class meets one day per week. There will be a new assignment(s) in class each week. Due to

the Corona Virus, Moodle will be used instead of meeting one day per week until further notice.

1. **3. Assignments:**

Due to the Corona Virus, class assignments will be online via Moodle until further notice

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1. **4. Grading:**

To pass this class, the student must fully complete all assignments and achieve a score of at

least 70% on the Final Exam.

**Student Grade Options Available for this course:**

A through F Letter Grade basis

Pass / No Pass (P/NP) basis

**5. Safety:**

The student is responsible to follow all safety rules and shop procedures, and to perform all tasks

in a safe and conscientious manner. This includes wearing the required safety items (safety glasses,

high top hard top boots, etc.) during the lab time.

NOTE: The instructor will verbally warn the student when required safety items are not being worn

in the shop, or when safety procedures are not being followed. Upon the third verbal warning, the

student will be withdrawn from the course by the instructor.

**6. Additional Information For The Student:**

**Disabilities Services and Emergency Planning – Meet with Instructor Week One**

Students who may need accommodations due to documented disabilities, who have medical information which the instructor should know, or who need special arrangements in an emergency

should speak with their instructor during the first week of class. If you believe you may need accommo-

dations but are not yet registered with the Center for Accessibility Resources (CFAR), please visit the [**CFAR Website**](https://www.linnbenton.edu/cfar) for steps on how to apply for services or call [(541) 917-4789](tel:5419174789).

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(for further information <http://po.linnbenton.edu/BPsandARs/> )

**Outcomes**

Upon successful completion of this course, students will be able to:

Demonstrate understanding of basic select concepts of the A.W.S. D1.1 Structural Welding Code. Utilize terminology used within and as applied to the A.W.S. D1.1 Structural Welding Code. Evaluate welds in comparison to D1.1 Code standards. Utilize applicable tools including use of a fillet weld size gauge. Identify the conceptual and practical differences between the qualification of a Welding Procedure and a Welder Qualification.