Course Syllabus

Course #: WET 2710 **Course Name: Pipe Welding/Downhill**

Division: Engineering and Industrial Technologies

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Class Days: **Class Time:**
Location: Classroom: Laboratory:
Credit Hours: **Contact Hours:** **Lab Hours:** **Lecture Hours:**
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Instructor:_____ **Office Location:**
Phone:_____ **Email Address: _____**

Office Hours: TBD
Division Office/Location: Engineering Building **Division Fax:** 419-334-2300
Full-time Contact Person: Jayne Bowersox **Phone(s):** (419) 559-2410
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Course Description:
This course consists of a series of instructional units emphasizing skills in downward position welding and provides step-by-step procedures to develop skills in welding pipe downhill with and without backing rings. Emphasis is placed on the quality of the welds to meet transmission pipeline and industry-sponsored specifications.

Prerequisite(s): None

Corequisite(s): None

Entry Level Skills and Knowledge:

Required Texts, Supplies and Equipment:
Safety glasses
Chipping hammer
Welding gloves
Pliers or vise-grips
Cutting goggles
Wire brush
Striker
Soapstone
Measuring device

Grading:
= A
= B
= C
= D
Below = F

Learning Outcomes:

General Education

1. **Communicate effectively**
2. **Evaluate arguments in a logical fashion**—Competence in analysis and logical argument are explicit learning goals for most general education programs, although these skills go by a variety of names (e.g., critical thinking, analysis, logical thinking, etc.). **Students will be able to demonstrate competence in problem solving in communication, mathematics, and in team settings.**
3. **Employ the methods of inquiry characteristic of natural sciences, social sciences, mathematics, and the arts and humanities**; general education introduces students to methods of inquiry in several fields of study and thereby prepares students to integrate information from different disciplines.

General Education

1. Produce butt welds on horizontal pipe

2. Produce fixed position welds on vertical pipe

3. Produce three-pass vertical fillet welds on vertical plate

4. Produce fixed position welds on horizontal pipe

5. Produce vertical welds on beveled plate

6. Produce fixed position welds on horizontal pipe with back-up rings.

Assessment of Student Learning:

Assessment Project and Measurement in course (if any):

Plan of Work:

Week 1
Week 2
Week 3
Week 4
Week 5
Week 6
Week 7
Week 8
Week 9
Week 10
Week 11
Week 12
Week 13
Week 14
Week 15

Course Requirements:
Complete all assignments as required
Successfully complete projects as assigned by the instructor.

Policies

Course Withdrawing: If for any reason you need to withdraw from this course, be certain that you do so according to College procedure. It is your responsibility to know and follow this procedure. If you simply stop coming to class, without officially withdrawing from the course, your grade is an automatic "F." Please follow official College procedure for withdrawing from this or any course.

College Academic Policies are located in the College Catalog. A copy of the current catalog may be picked up in any of the division offices or admissions. The list of college policies is also available online at https://www.terra.edu/register/Collegecat/policies.asp.

Support Services: The College offers a number of support services to assist in your success in this course and all courses. Among these services are the Writing & Math Center in B105, the Office of Learning Support Services, which coordinates the campus disability services and tutoring programs, the computer labs, and the computers in the atriums.

Any student who feels he/she may need an accommodation based on the documentation of a disability should contact the Office of Learning Support Services privately to discuss his/her specific issues. Please contact the OLSS at (419) 334-8400 X 208 or visit 100 Roy Klay Hall (Building A) to coordinate reasonable accommodations.

If you have a documented disability and are receiving academic accommodations through the Office of Learning Support Services, please schedule a meeting with your instructor in a timely manner so that we may discuss how these services will be arranged.

Tutoring services are available to students beginning the second week of every quarter. Students requesting tutoring services should obtain a tutor request form from the OLSS in 100 Roy Klay Hall (Building A) or online at the Terra website. Please note that instructor verification and acceptance of the Student Learner Agreement is necessary for all tutoring requests. All requests should be submitted to 100 Roy Klay Hall (Building A).