



Course Syllabus

Course #: WET 2720 Course Name: Pipe Welding Tig

Division: Engineering and Industrial Technologies

Class Days:

Class Time:

Location: Classroom:

Laboratory:

Credit Hours:

Contact Hours:

Lab Hours:

Lecture Hours:

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

Course Description:

This course consists of a series of instructional units stressing theory and practical application in the area of welding carbon steel pipe. Emphasis is placed on advanced training in the 2G and 5G positions, with and without backing rings. Metallurgical and mechanical properties, principles and processes, equipment knowledge, and application to meet transmission pipeline or industry-sponsored specifications is also presented.

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. Develop their welds to the point where they can perform high quality welds on steel pipe, with or without consumable inserts.
2. Understand and be capable of using equipment known as heliweld or heliarc, gas tungsten arc welding.
3. Use their judgement to attain proper weld fusion, maintain proper weld puddle characteristics, and other quality weld requirements.

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).