

WELD 279 Welding Inspection

Credit Hours: 2**Scheduled hours per week**

Lecture: 2

Lab: 0

Other: 0

Catalog Course Description: Teaches the student about inspection and prepares the student to take the AWS welding inspection exam with the API 1104 Code Book.

Prerequisites: None**Corequisites:** None**Course learning Outcomes:**

To introduce the student to daily functions of a Certified Welding Inspector.

Topics to be studied:

- Reading and Deciphering API 1104 Code Book
- CWI Responsibilities
- Quality Control Procedures
- Writing WPS, PQR, WPQ
- Demonstrations related to NDT
- Demonstration of Mechanical Testing

Relationship of course to program outcomes:

Students will be proficient with “hands-on” skills in all welding processes (SMAW, GTAW, FCAW, GMAW)	X
80% of all students will pass ASME welding test on plate 2G, 3G and 4G positions and or 6G pipe test	
Students will be able to perform destructive testing and recognize whether it passes or fails and also the daily functions of a (CWI)	
Student will know the technology terminology used in the welding industry	X
Students will be able to demonstrate the ability to work ethically, effectively, and respectfully with people of diverse backgrounds and with people who have different roles, social affiliations, and personalities.	X

**Place an X by all the general education competencies met in this course.*

Approved by Curriculum Committee
Revised 9/09

This course meets the following General Education Outcome(s):	
Composition and Rhetoric Students illustrate a fundamental understanding of the best practices of communicating in English and meet the writing standards of their college or program-based communication requirements.	
Science & Technology Students successfully apply systematic methods of analysis to the natural and physical world, understand scientific knowledge as empirical, and refer to data as a basis for conclusions.	
Mathematics & Quantitative Skills Students effectively use quantitative techniques and the practical application of numerical, symbolic, or spatial concepts.	X
Society, Diversity, & Connections Students demonstrate understanding of and a logical ability to successfully analyze human behavior, societal and political organization, or communication.	
Human Inquiry & the Past Students interpret historical events or philosophical perspectives by identifying patterns, applying analytical reasoning, employing methods of critical inquiry, or expanding problem-solving skills.	
The Arts & Creativity Students successfully articulate and apply methods and principles of critical and creative inquiry to the production or analysis of works of art.	
5/3/2016	

Special projects or requirements of the course:**Additional information:**

None

Prepared by: Joseph F. Hunt**Date: 10/17/2017**