



ILLINOIS VALLEY COMMUNITY COLLEGE

COURSE OUTLINE

DIVISION: Workforce Development

COURSE: WSP 2207 OAW Gas Welding Vertical,
Overhead, Mild Steel Pipe

Date: Spring 2022

Credit Hours: 2

Prerequisite(s): WSP 2206 and Approval from Program Coordinator

Delivery Method:

<input checked="" type="checkbox"/> Lecture	1 Contact Hours (1 contact = 1 credit hour)
<input type="checkbox"/> Seminar	0 Contact Hours (1 contact = 1 credit hour)
<input checked="" type="checkbox"/> Lab	2 Contact Hours (2-3 contact = 1 credit hour)
<input type="checkbox"/> Clinical	0 Contact Hours (3 contact = 1 credit hour)
<input type="checkbox"/> Online	
<input type="checkbox"/> Blended	
<input type="checkbox"/> VCM	

Offered: Fall Spring Summer

CATALOG DESCRIPTION and IAI NUMBER (if applicable):

This course includes the theory, safety and operation of oxyacetylene welding in flat plate in vertical up, overhead positions, as well as mild steel pipe in all positions.

COURSE TOPICS AND CONTENT REQUIREMENTS:

Shop safety
Basic Printreading
Welding joints positions and symbols
Oxyfuel gas welding equipment
Oxyfuel gas welding

EVALUATION OF STUDENT ACHIEVEMENT:

1. Read all material before coming to class
2. Participate in classroom and lab discussions and lectures.
3. Attend all class and lab sessions
4. Complete all required assignments, exercises, tasks, quizzes and tests.
5. Self-asses welds, maximize lab time.

INSTRUCTIONAL MATERIALS:

Textbooks

Modern Welding textbook and workbook, G-W, 12th edition

Resources

Blackboard Publisher content available
Videos
Handouts
Lincoln Electric Welding technology center
Hobart institute of Welding technology

LEARNING OUTCOMES AND GOALS:

Institutional Learning Outcomes

- Communication – to communicate effectively;
- Inquiry – to apply critical, logical, creative, aesthetic, or quantitative analytical reasoning to formulate a judgement or conclusion;
- Social Consciousness – to understand what it means to be a socially conscious person, locally and globally;
- Responsibility – to recognize how personal choices affect self and society.

Course Outcomes and Competencies

1. Safe use of all equipment as well as all safety guidelines will be discussed and utilized.
2. Understand and demonstrate safe work practices in the welding shop in regards to oxyacetylene welding equipment.
3. Demonstrate the ability to produce a surfacing weld.
4. Demonstrate the ability to produce a single pass fillet weld, in lap, tee and corner joints.
5. Demonstrate the ability to produce a butt weld and open root butt weld
6. Demonstrate the ability to produce a butt weld and open root butt, and open root vee groove weld in mild steel pipe.
7. Demonstrate the ability to conduct a Visual Examination of these welds to AWS criteria.