DIVISION: Workforce Development

COURSE: WSP 1221 GTAW Stainless Steel, All Positions

Date: Summer 2022

Credit Hours: 2

Complete all that apply or mark “None” where appropriate:

Prerequisite(s): WSP 2206

Enrollment by assessment or other measure? ☑ Yes ☐ No
If yes, please describe:

Corequisite(s): None

Pre- or Corequisite(s): None

Consent of Instructor: ☐ Yes ☑ No

Delivery Method:

☒ Lecture 1 Contact Hours (1 contact = 1 credit hour)
☐ Seminar 0 Contact Hours (1 contact = 1 credit hour)
☒ Lab 2 Contact Hours (2-3 contact = 1 credit hour)
☐ Clinical 0 Contact Hours (3 contact = 1 credit hour)
☐ Online
☐ Blended
☐ Virtual Class Meeting (VCM)

Offered: ☑ Fall ☒ Spring ☑ Summer

CATALOG DESCRIPTION and IAI NUMBER (if applicable):
Theory and practice in GTAW welding process, focusing on preparation and welding of Stainless steel plate in all positions.
ACCREDITATION STATEMENTS AND COURSE NOTES:
None

COURSE TOPICS AND CONTENT REQUIREMENTS:
Shop safety
Basic Printreading
Welding joints positions and symbols
GTAW equipment and supplies
GTAW welding principles
GTAW welding techniques
GTAW welding safety

INSTRUCTIONAL METHODS:
Classroom lecture, weld lab hands-on instruction

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.

The following grading scale will be used:
A= 90-100
B= 80-89
C= 70-79
D= 60-69
F= 0-59

INSTRUCTIONAL MATERIALS:
Textbooks
Modern Welding textbook and workbook, G-W, 12th edition

Resources
Current Learning Management System (LMS) content available
Videos
Handouts
Lincoln Electric Welding technology center
Hobart institute of Welding technology

LEARNING OUTCOMES AND GOALS:
Institutional Learning Outcomes
☒ 1) Communication – to communicate effectively;
☒ 2) Inquiry – to apply critical, logical, creative, aesthetic, or quantitative analytical reasoning to formulate a judgement or conclusion;
☐ 3) Social Consciousness – to understand what it means to be a socially conscious person, locally and globally;
☒ 4) 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. Establish an electric arc and deposit a 6" long bead in both stringer and weave style.
3. Demonstrate restarts as needed in both stringer and weave beads.
4. Demonstrate the ability to produce a surfacing weld.
5. Demonstrate the ability to produce a single pass fillet weld, in lap, tee and corner joints.
6. Demonstrate the ability to produce a multi-pass fillet weld, in lap, tee and corner joints.
7. Demonstrate the ability to conduct a Visual Examination of these welds to AWS criteria.