

SME Course Syllabus Report

College: Lakeland Community College

Specific Course Reviewed: WELD 2380 GTAW (TIG) Pipe Welding

Prepared By: Charles Cross, Consultant

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Submitted To: Lorain County Community College

Consultant Credentials: Charles Cross has a B.S. in Technology Education, M.Ed. in Technology Education, and is an American Welding Society (AWS) Certified Welding Inspector (CWI), Certified Welding Educator (CWE), and Certified Welding Supervisor (CWS). Mr. Cross gained tenure in public education as an Industrial Arts/Technology Education Instructor prior to his current employment earning a Golden Apple Award. Mr. Cross has been at his current employer, Lincoln Electric for over six years and is currently the Senior Customer Training Instructor at the Welding Technology Training Center. Current focus areas are industrial/educational training around welding and welding technologies.

Evaluation Method: The rubric below was used to evaluate that core curricula meets industry standards.

Review Scale Definitions:

0: Evident

1: Not Evident

N/A: Not Applicable

1. Program/Course Overview: <i>The overall design of this course is made clear to the student.</i>	Evident	Not Evident	N/A
1.1 The program/course objectives are clearly stated.	X		
1.2 Learning objectives are specific and appropriately designed for course.	X		
1.3 Learning objectives describe outcomes that are measurable.	X		
1.4 Course objectives/outcomes align to an occupational focus	X		
Comments or recommendations: References throughout the course syllabus of AWS and ASME Section IX support industry standards.			
2. Resources and Materials: <i>Instruction materials align with stated course objectives and outcomes.</i>	Evident	Not Evident	N/A
2.1 The instructional materials contribute to the achievement of the stated course learning objectives.	X		
2.2 The course materials, activities, and outcomes are relevant/reflect industry workforce development needs.	X		
2.3 The instructional materials on course content provide quality options for different learning styles.	X		
2.4 The learning activities are designed at an appropriate level for the course.	X		
2.5 Equipment/technology support course learning objectives and are relevant to industry.	X		
Comments or recommendations: No textbook is required, however, that is up to the instructors discretion. It is nice to see that ANSI Z49.1 is built into the course outline. Items students must furnish are listed in the course description.			

3. Learner Activities and Relevancy: <i>Course objectives and outcomes are relevant to students, industry and employers.</i>	Evident	Not Evident	N/A
3.1 Learning objectives describe outcomes that are measurable.	X		
3.2 Course outcomes and objectives provide content that is relevant to industry and employers.	X		
3.3 Instruction, activities, and assignments are relevant to and engaging to students.	X		
3.4 Learning activities align to industry workforce development initiatives.	X		
Comments or recommendations: Students have the ability to achieve an industry recognized certification of qualification passing independent 3 rd party test of welds made using a qualified or pre-qualified welding procedure specification.			
4. Assessment and Measurement: <i>Assessment strategies use established ways to measure effective learning, evaluate student progress by reference, to stated learning objectives, and are designed to be integral to the learning process.</i>	Evident	Not Evident	N/A
4.1 The course evaluation criteria/course grading policy is stated clearly on the syllabus.	X		
4.2 Course-level assessments measure the stated learning objectives and are consistent with course activities and resources.	X		
4.3 Assessments are varied and appropriate to the content being assessed.	X		
Comments or recommendations: A diverse range of grading and instructional procedures are to be used throughout this course.			

Overall Summary:

This course syllabus on GTAW (TIG) Pipe Welding aligns with industry standards. This course is nice since students are focusing on the GTAW process and welding in multiple positions such as 2G, 5G, and 6G. This course not only focuses on welding but also the material prep and fit up. As a recommendation, it may add value to add 2" SCH XXH pipe in course objectives to 3 and 8. Several references to AWS and ASME are mentioned throughout this course outline. An additional safety reference that may add value is the American Welding Society Safety & Health Fact Sheets.

Reviewers Signature: Charles Cross

Date: 6/16/18

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