SME Course Outline Report

College: Lakeland Community College

Specific Course: WELD2380 GTAW (TIG) Pipe Welding

Prepared By: Charles Cross, Consultant

Date Completed: 6/16/2018

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: *The overall design of this course is made clear to the student.*	**Evident**	**Not Evident**	**N/A**
1.1 The program/course outcomes are clearly stated.	X		
1.2 Prerequisites and/or any competencies are clearly stated.	X		
1.3 Learning outcomes are specific and appropriately designed for course.	X		
1.4 Course outcomes align to an occupational focus.	X		
Comments or recommendations: References throughout the course outline of AWS and ASME Section IX support industry standards.			

2. Resources and Materials: *Instruction materials align with stated course outcomes.*	**Evident**	**Not Evident**	**N/A**
2.1 The course materials, activities, and outcomes are relevant/reflect industry workforce development needs.	X		
2.2 The instructional materials on course content provide quality options for different learning styles.	X		
2.3 The learning activities are designed at an appropriate level for the course.	X		
2.4 Equipment/technology support course learning outcomes and are relevant to industry.	X		
Comments or recommendations: 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: *Course outcomes are relevant to students, industry and employers.*	**Evident**	**Not Evident**	**N/A**
3.1 Course outcomes provide content that is relevant to industry and employers.	X		
3.2 Instruction, activities, and assignments are relevant and engaging to students.	X		
3.3 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 3rd party test of welds made using a qualified or pre-qualified welding procedure specification.			

4. Assessment and Measurement: *Assessment strategies use established ways to measure effective learning, evaluate student progress by reference, to stated learning outcomes, and are designed to be integral to the learning process.*	**Evident**	**Not Evident**	**N/A**
4.1 The course evaluation criteria/course grading policy is stated clearly on the outline.	X		
4.2 Course-level assessments measure the stated learning outcomes 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 variety of grading procedures and instructional procedures are listed that may be utilized. It was nice to see project base learning included in the instructional procedures.			

Overall Summary:

This course outline on GTAW (TIG) Pipe Welding aligns with industry standards, however the top of the page states work in progress, not yet approved. 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 performance indicator 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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