SME Course Syllabus Report

College: Lakeland Community College

Specific Course Reviewed: WELD 1320 Basic SMAW (Stick) Welding

Prepared By: Charles Cross, Consultant

Date Completed: 5/27/18

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	Evident	Not Evident	N/A
clear to the student.			
1.1 The program/course objectives are clearly stated.	Х		
1.2 Learning objectives are specific and appropriately designed for course.	Х		
1.3 Learning objectives describe outcomes that are measurable.	X		
1.4 Course objectives/outcomes align to an occupational focus	Х		

Comments or recommendations:

References to AWS and ASME support this course to align with industry standards.

2. Resources and Materials: Instruction materials align with stated course	Evident	Not Evident	N/A
objectives and outcomes.			
2.1 The instructional materials contribute to the achievement of the	X		
stated course learning objectives.			
2.2 The course materials, activities, and outcomes are relevant/reflect	X		
industry workforce development needs.			
2.3 The instructional materials on course content provide quality options	Χ		
for different learning styles.			
2.4 The learning activities are designed at an appropriate level for the	Χ		
course.			
2.5 Equipment/technology support course learning objectives and are	X		
relevant to industry.			

Comments or recommendations:

There is no textbook required or mentioned as a reference for the student. This is at discretion of the instructor.

3. Learner Activities and Relevancy: Course objectives and outcomes are	Evident	Not Evident	N/A
relevant to students, industry and employers.			
3.1 Learning objectives describe outcomes that are measurable.	Х		
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.	Х		

Comments or recommendations:

Course activities include weld inspection and quality, welding positions, and electrodes among others key topics relevant to industry.

4. Assessment and Measurement: 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.	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.	Х		
4.3 Assessments are varied and appropriate to the content being assessed.	Х		

Comments or recommendations:

The basis for grades provides a variety of student assessments for measurement of student competency.

Overall Summary:

This course is a model example of how a Basic SMAW course syllabus should look. As a recommendation, it may be valuable to add ANSI Z49.1 as topic in the course outline to cover other safety topics not mentioned. Another safety reference that may add value to use is the American Welding Society Safety & Health Fact Sheets. Under course objectives 2 and 3, possibly look into change 12 gauge steel to 11 gauge steel since AWS D1.1 2015 is based off 1/8" (3mm) and thicker plate. If not, just change the gauge size to inches to keep it appropriate based off the code being followed. Under objective 5 and 8, butt weld is mentioned which is commonly used in API 1104, but the acceptable weld is to meet D1.1 criteria. For objective 5, possibly change to butt weld to groove weld in butt joint and objective 8 possibly change to butt weld to butt joint.

Reviewers Signature: <u>Charles Cross</u> Date: <u>5/27/18</u>

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