

## SME Course Syllabus Report

**College:** Lakeland Community College

**Specific Course Reviewed:** WELD 1030 Arc Welding Fundamentals

**Prepared By:** Charles Cross, Consultant

**Date Completed:** 5/26/18

**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**

<b>1. Program/Course Overview:</b> <i>The overall design of this course is made clear to the student.</i>	<b>Evident</b>	<b>Not Evident</b>	<b>N/A</b>
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: Course objectives are relevant to industry standards.			
<b>2. Resources and Materials:</b> <i>Instruction materials align with stated course objectives and outcomes.</i>	<b>Evident</b>	<b>Not Evident</b>	<b>N/A</b>
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: It may add value to investigate using virtual reality welding machines for this course since there is no hands-on lab time. Adding virtual reality welding machines may help make the topics more relevant. The test required is the most current edition of Welding Skills by American Technical Publishers.			

<b>3. Learner Activities and Relevancy:</b> <i>Course objectives and outcomes are relevant to students, industry and employers.</i>	<b>Evident</b>	<b>Not Evident</b>	<b>N/A</b>
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:			
<b>4. Assessment and Measurement:</b> <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>	<b>Evident</b>	<b>Not Evident</b>	<b>N/A</b>
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: Course schedule assignments each week provide different topics vs order of course outline. It is understandable there is some overlap on course outline topics covered and course schedule assignments.			

**Overall Summary:**

This is a model syllabus for an Arc Welding Fundamentals course that provides key topics relevant to industry standards. The diverse topics around welding are present and relevant to industry standards. There are factors around welding safety that are not listed in the course outline and it may be valuable to add ANSI Z49.1 as topic in the course outline to cover other safety topics not mentioned. It is noted for students to obtain a copy of ANSI Z49.1 in the course schedule which is excellent and a model for industry standards. Another safety reference to use is the American Welding Society Safety & Health Fact Sheets that may add value.

**Reviewers Signature:** Charles Cross

**Date:** 5/26/18

*This work is adapted from the TREND Consortium Curriculum Review, Michigan Coalition for Advanced Manufacturing Subject Matter Expert Course Review, and the South West Arkansas Community College Consortium Syllabus Evaluation, all licensed under the Creative Commons Attribution 4.0 International License.*

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