

SME Course Syllabus Report

College: Lakeland Community College

Specific Course Reviewed: WELD 2370 Advanced Pipe Welding

Prepared By: Charles Cross, Consultant

Date Completed: 6/9/2018

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: <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 of AWS, ASME, and API provide in the course description to 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: It is nice to see that ANSI Z49.1 is built into the course outline. It is also nice to see the students are using 6" scheduled 40 & 80 pipe to weld on whether they are welding to ASME Section IX or API 1104. 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: It is nice that students will choose which direction they want to focus on (API or ASME) which is a major benefit. Since this course is advanced it focuses on welding in the 5G, 6G, and 6GR positions. Students will also benefit from the knowledge on how to fit-up and prepare the pipe specimen before welding on it.			
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: Several instructional procedures may be used and the grading procedures involve a wide range of methods to evaluate student performance. Students have the opportunity to pass an industry recognized certification of qualification from a 3 rd party.			

Overall Summary:

This course syllabus on Advanced Pipe Welding is a model and aligns to industry standards. It is nice to see a portion in the outline dedicated to students preparing and fitting up the pipe. Since this is an advanced course, it is nice to see the course focusing on welding positions in the 5G and 6G positions. Several references to AWS, ASME, and API are present throughout the course outline supporting industry initiatives. An additional safety reference that may add value is the American Welding Society Safety & Health Fact Sheets.

Reviewers Signature: Charles Cross

Date: 6/9/18

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.

This workforce solution was funded by a grant awarded by the U.S Department of Labor's Employment and Training Administration. The solution was created by the grantee and does not necessarily reflect the official position of the U.S Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership.



This work is licensed under the Creative Commons Attribution 4.0 International License. It is attributed to Ohio TechNet. To view a copy of this license, visit <http://creativecommons.org/licenses/by/4.0/>.