SME Powerpoint Review

College: Lakeland Community College

Specific Powerpoint Reviewed: Welding Safety at Lakeland Community College

Prepared By: Charles Cross, Consultant

Date Completed: 6/30/2018

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 presentation meets industry standards.

Review Scale Definitions:
0: Evident
1: Not Evident
N/A: Not Applicable

1. Exam and Exam Answer Key Overview:	Evident	Not Evident	N/A
1.1 Powerpoint is appropriately designed for content covered.	X		
1.2 Powerpoint criteria aligns to an occupational focus and industry relevance.	X		
1.4 Powerpoint is accurate and aligns with content covered.	X		

Comments or recommendations:

- On the slide dealing with Welding Lab Safety Rules, a definitive statement is listed to never arc weld below shade 9. A suggestion would be to just reference ANSI Z49.1 which is five slides later.
- On slide under rule 3 titled special concerns regarding oxygen, it is stated oxygen cylinders are to be stored 25 which exceed ANSI Z49.1 clause 10.8.2.3
- On slide titled TLV's for Various Fume Components, it may be valuable to put a date as to when the values were set by ACGIH.
- On the slide titled Distances Sparks & Spatter can travel may want to reference ANSI Z49.1 Clause 6.4, which states sparks can travel in excess of 35 feet.
- On the slide titled Flammable Ranges for Different Gases, it may add value to list reference of where data was obtained.

Overall Summary:
This presentation aligns to industry standards and there were references to ANSI Z49.1, AWS F4.1, and CAN/CSA W117.2-01 and the Lakeland CC General Guidelines throughout the slides to support. This presentation could allow for students to have a scavenger hunt throughout the facility to ensure student competency. On slide starting with rule 4, a recommendation of resource to add is the American Welding Society Safety and Health Fact sheets. This presentation could be modified for duplication at other training centers.

Reviewers Signature: *Charles Cross* **Date: 6/30/18**

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.