



## Subject Matter Experts (SME) Review New Safety Curriculum

**Program/Course Reviewed:** SAFE-116

**College:** Lorain County Community College (LCCC) , 1005 N. Abbe Rd., Elyria, Ohio 44035

**Reviewed By:** ELSMART Associates, LLC (credentials of reviewers include Certified Safety Professional (CSP), Certified Industrial Hygienist (CIH), Certified Hazardous Material Manager (CHMM), Certified Environmental Trainer (CET), Registered Nurse (RN), Society Human Resources Manager – Certified Professional (SHRM-CP), Professional in Human Resources (**PHR**)) – Total years of experience for reviewers in Environmental, Safety, and Health over 100 years.

**Date:** 5-20-2018

### **Review scale definitions:**

**Exceptional:** Review component is a “best practice” and represents a model for replication.

**Very good:** Review component is complete and effective.

**Good:** Review component is adequate but presents opportunities for improvement.

**Ineffective:** Review component is weak and in need of significant improvement.

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**No or Insufficient Evidence:** Review component was not covered or information provided in the documents was insufficient for assessment.

Curriculum Map, Career Ladder/Stackable Credential Documentation, Syllabi	Excellent	Very Good	Good	Ineffective	No/Insufficient Evidence
1. Program CIP code/s appropriate to program title and outcomes.			X		
2. Effective program structure (prerequisites, course sequence, stackable credential-structure provide a clear, logical path to completion).			X		
3. Outcomes aligned to occupational focus (industry skills and standards) and prepare students for appropriate industry certification/s.		X			
4. Outcomes are clearly stated.		X			
5. Outcomes are introduced and reinforced effectively.			X		
6. Course objectives are clearly stated and measurable.		X			
7. In multi-course programs, course objectives support one or more program or student learning outcome. In single-course programs, modules support one or more course objective.		X			

**Comments or recommendations specific to each section rated:**

1. Classification of Instructional Programs (CIP) is appropriate
2. No prerequisites listed. May want to add basic chemistry, biology, and physics.
3. Concepts used in industry and certification in EHS profession.

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4. Almost all outcomes effectively outlined. Several need to be formatted in SMART goals.
5. Use different learning styles and educational techniques.
6. Almost all outcomes effectively outlined. Several need to be formatted in SMART goals.
7. Objectives fundamental to all occupational health courses.

General comments or recommendations:  
Varied assessment, activities, and learning styles and preferences.

Instructional Materials and Lab Resources	Excellent	Very Good	Good	Ineffective	No/Insufficient Evidence
1. Support stated course or unit learning objectives.		X			
2. Meet/reflect current industry practices and standards.		X			
3. Provide options for multiple learning styles.		X			
4. Instructional materials are cited properly.		X			
5. There is evidence of materials and resources that support on-line or technology-enabled learning.			X		

**Comments or recommendations specific to each section rated:**

1. Syllabus lists several resources.
2. Should include links to 1910.1000 TABLE Z-1 and 1910.1000 TABLE Z-2.
3. Needs improvement see general comments.
4. Most cited correctly. Several did not list sources for student reference and changes.
5. Very limited online support and technology used.

General comments or recommendations:

Instructional media should include films, videotapes, cell phone apps, and computer applications. Case studies would assist modules.

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<b>Overview Table: Objectives, Modules/Units, Learning Activities and Assessments</b>	<b>Excellent</b>	<b>Very Good</b>	<b>Good</b>	<b>Ineffective</b>	<b>No/Insufficient Evidence</b>
1. Modules/units are linked to course objectives.			X		
2. Learning activities promote achievement of stated module/unit objectives.			X		
3. Learning activities provide opportunities for interaction and active learning.			X		
4. Learning activities provide options for multiple learning styles.			X		
5. Learning activities are linked to current industry practices, standards and certifications.			X		
6. Learning activities demonstrate evidence of innovation or enhancements to support adult learner success.				X	
7. Materials/resources (to include equipment, tools and software) are used in a way that students understand their purpose and use in industry settings.				X	
8. Assessments measure stated learning objectives and link to industry standards.		X			
9. Assessments align with course activities and instructional materials and resources.			X		
10. Assessments are sequenced throughout the instructional period to enable students to build on feedback.			X		
11. Assessments are varied and appropriate to content.			X		
12. Assessments provide opportunities for students to measure their own learning progress.			X		

**Comments or recommendations specific to each section rated:**

1. Modules enhanced when learning objectives/outcomes are revised.
2. Learning objectives will improve when learning objectives/outcomes are revised.
3. Need more interaction.
4. Need to be tied to more professional bodies in EHS (AIHA, ABIH, BCSP, ASSP, CDC, etc.)
5. Good connection, however, program management needs to be included.

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6. No learning activities provided that motivate students to apply and use cognitive abilities.
7. Use videos and equipment to validate activities.
8. Need to relate objectives to regulatory standards and benchmarking. Consider introduction of international standards.
9. Increase recommended resources to include cell phone apps (WISER, ERG 2016, SKC pump, etc)
10. Consider matching, essay tests, problem sets, and performance tests.
11. Consider matching, essay tests, problem sets, and performance tests.
12. Assessments need to identify good work, improve self-evaluation and encourage lifelong learning.

General comments or recommendations:

Outcomes listed below. Need to be Specific, Measurable, Attainable, Relevant and Timely (SMART). Several goals do not meet the format. Consider supplemental and alternative to just lecture like small subgroups, brainstorming, guest speakers, simulation games, and case studies. Homework assignments should be various types of assessments.

1. Introduction of Bloodborne Pathogens Standard a. Discuss occupational exposure
2. Exposure Control Plan a. Describe the scope of an Exposure Control Plan (ECP)
3. Exposure Determination a. Discuss employees covered by Bloodborne Pathogens Standard
4. Methods of Control a. Universal Precautions
- b. Engineering and Work Practice Controls
- c. Personal Protective Equipment
- d. Housekeeping Practices
5. Vaccinations and Evaluations a. Discuss hepatitis vaccination and exposure incident requirements i. Hepatitis B Vaccination Requirements
- ii. What to do if an exposure incident occurs
6. Training requirements discuss
7. Introduction to Recordkeeping Standard a. Scope and Coverage
8. Identify OSHA requirements for recordkeeping and posting a. OSHA Form 300 Log
- b. OSHA Form 300A Summary of Work-Related Injuries and Illnesses
- c. OSHA Form 301 Injury and Illness Incident Report
9. Introduction to the different types of Health Hazards commonly found in workplace settings. These include:
  - a. Chemical
  - b. Biological
  - c. Physical
  - d. Ergonomic
10. Methods of recognizing and identifying workplace health hazards.
11. Methods of evaluating and ranking health hazards.
12. Methods of how to abate/control/eliminate workplace health hazards.

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Innovative or Enhanced Strategies	Excellent	Very Good	Good	Ineffective	No/Insufficient Evidence
1. Accelerate Entry into Career Programs  Refine assessment, transform developmental education and add support services to meet the needs of participants			X		
2. Create Clear Pathways to STEM Careers  Expand access to and/or develop new stacked and latticed credentials in programs that meet employer needs			X		
3. Improve Employment Attainment  Collaborate with industry, WIBs, state, and community-based organizations to engage, guide and employ participants			X		
<b>Comments or recommendations specific to each section rated:</b>					
<p>1. Course skills when objectives are updated will meet all employers need for safety objectives.</p> <p>2. Core to this course is chemistry, physics, math, and biology prerequisites.</p> <p>3. This course should have guest speakers and real world examples.</p> <p>General comments or recommendations:  <b>This course must provide skills that all employees will recognize as providing a company their license to operate in the current business environment. Real world examples and case studies will increase retention and application of principles outlined in the course. Discuss new silica and EAR fit equipment to enhance instructional techniques.</b></p>					

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