



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

**Program/Course Reviewed:** SAFE-120

**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 (BSN-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:** 5-31-2018

### 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.

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





<b>Curriculum Map, Career Ladder/Stackable Credential Documentation, Syllabi</b>	<b>Excellent</b>	<b>Very Good</b>	<b>Good</b>	<b>Ineffective</b>	<b>No/Insufficient Evidence</b>
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		
<b>Comments or recommendations specific to each section rated:</b> <ol style="list-style-type: none"> <li>1. Meets Requirements</li> <li>2. PowerPoints, Tutorials, and Videos need to be updated to include Chemical Safety Board (CSB) Material.</li> <li>3. Outcomes not clearly identified. Outcomes not Specific, Measurable, Attainable, Relevant and Timely.</li> <li>4. Outcomes do not meet skills, knowledge, or application needed by support personnel. Do not meet criteria specified in OSHA</li> <li>5. Outcomes are listed in syllabus and PPT's support outcomes.</li> </ol>					

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- 6. Outcomes not clearly identified. Outcomes not Specific, Measurable, Attainable, Relevant and Timely.
- 7. Some course objectives supported.

General comments or recommendations: Learning outcomes need to be improved and updated to current regulatory guidance. Most reference material more than 10 years old and outdated. .

<b>Instructional Materials and Lab Resources</b>	<b>Excellent</b>	<b>Very Good</b>	<b>Good</b>	<b>Ineffective</b>	<b>No/Insufficient Evidence</b>
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. ADA information must be listed in syllabus and reinforced in assignments.
- 2. Course does not prepare student to be effective in writing or planning. No exercise discussion
- 3. Assignments presented do not reflect varied learning styles. Course needs activities, case studies, and real world problem solving. Should also incorporate calculations for evaluation of issues during sampling.
- 4. Instructional material suggestions - Consider using OSHA publications.  
<https://www.osha.gov/pls/publications/publication.athruz?pType=Industry&pID=250>
- 5. No online or simulation software recommended or used.

General comments or recommendations: Update course materials to include CBT's, scenarios, and discussions. In addition, no assessments provided.





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Safety Management  
Assessment Regulatory Training

<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
<b>Comments or recommendations specific to each section rated:</b> 1. Objectives and course material not aligned. 2. No learning activities, exercises, or case studies assigned. 3. No learning activities, exercises, or case studies assigned. 4. Few videos offered and no learning activities, exercises, or case studies assigned.					

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5. See note below for updates in comments.
6. No learning activities, exercises, or case studies assigned.
7. No applications or software presented in course. Recommend Combustible Dust Hazard Assessment Timber products Manufacturers Inc. App
8. No assessments in course materials
9. No assessments in course materials
10. No assessments in course materials
11. No assessments in course materials
12. No assessments in course materials

General comments or recommendations: Recommend course format be OSHA guidance, OSHA standards, OSHA enforcement, Consensus Standards and Benchmarking, and exercise. Consider presentation in addition to quizzes and exams. I would also recommend case studies to reinforce main objectives of identify and applying OSHA guidance, OSHA enforcement, Consensus Standards and Benchmarking.

1. Introduction to Emergency & Evacuation Planning
  - a. Purpose and requirements of emergency action and fire prevention plans
  - b. Integration of emergency plan concepts
  - c. Design and maintenance of emergency exit routes
2. Hazardous Materials
  - a. Terminology
  - b. General protective procedures
  - c. Information gathering
  - d. Patient care
  - e. Decontamination Operations
  - f. Personal Protective Equipment (PPE) assessment
3. Impact of Pandemic Influenza
4. Key Elements of a Preparedness Plan
5. Strategies to Support Continuity of Business Operations
6. Resources to Support Pandemic Influenza Preparedness Planning.





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Safety Management  
Assessment Regulatory Training

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			<b>X</b>		
2. Create Clear Pathways to STEM Careers  Expand access to and/or develop new stacked and latticed credentials in programs that meet employer needs			<b>X</b>		
3. Improve Employment Attainment  Collaborate with industry, WIBs, state, and community-based organizations to engage, guide and employ participants			<b>X</b>		
<p><b>Comments or recommendations specific to each section rated:</b></p> <ol style="list-style-type: none"> <li>Does not increase cognitive ability to support safety improvement of management</li> <li>Course does not reinforce Hierarchy of Controls, or basic concepts used by EHS personnel.</li> <li>Course did not discuss partnerships or facility solutions for pandemic and threats of violence.</li> </ol>					

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