



Subject Matter Experts (SME) Review New Safety Curriculum

Program/Course Reviewed: SAFE 225 – OSHA Guide to Industrial Hygiene

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: 7-2-2018

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.

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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. Program CIP code/s appropriate
2. Effective program
3. Aligned with industry objectives. New Technology like EAR-Fit and Exoskeleton should be included.
4. Out comes stated
5. Outcomes reviewed correctly
6. Most course objectives implied but not stated.
7. Objectives need updated.

General comments or recommendations: Recommend following Fundamentals of Industrial Hygiene requirements to ensure all topics are covered. Organize into occupational health programs to include indoor air quality. Discuss anticipate, recognize, and control. Toxicity should be included.





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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. Course and unit learning objectives in power point but not in syllabus.
2. Needs updated to standards
3. Used video's need case studies and group assignments.
4. Material cited correctly.
5. Use of smart phone apps or other technology.

General comments or recommendations:

Course objectives need updated to currently regulations and international standards.

Overview Table: Objectives, Modules/Units, Learning Activities and Assessments	Excellent	Very Good	Good	Ineffective	No/Insufficient Evidence
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		

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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. Module linked to objectives
2. Objectives need updated.
3. Improved objectives will allow more interactive learning.
4. Need more learning styles supported
5. Need updated with current technology enhancements.
6. Several varied styles but should include case studies exercise and real world problems.
7. Need to include cell phone applications.
8. No assessments included for review.
9. No assessments included for review.
10. No assessments included for review.
11. No assessments included for review.
12. No assessments included for review.

General comments or recommendations:

Recommend the following modules with enhanced objectives History and Development, Anatomy, Physiology, and Pathology, Recognition of Hazards, Evaluation of Hazards, Control of Hazards. Occupational Health and Safety Professions, Government Regulations and Their Impact. Need to include additional resources like ACGIH Threshold Limit Values (TLVs[®]) and Biological Exposure Indices (BEIs[®]), Conversion of Units, Review of Mathematics.

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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		
<p>Comments or recommendations specific to each section rated:</p> <ol style="list-style-type: none"> 1. Modified objectives course would be key reason for career in EHS. 2. Must have Math, Science, and Language prerequisites to apply in this course. Clearly STEM. 3. Employers are in need of skills taught in this course. <p>General comments or recommendations: This course should be enhanced with technology application, new developments, and risk communication. Because EHS personnel need to understand Industrial Hygiene because of the professional working with management, medical, engineering, and safety personnel help to eliminate and correct situations that can endanger human health.</p>					

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