

Student Learning Outcomes Library

Office of Assessment & Accreditation

Indiana State University

MA/MS Occupational Safety Management

Spring 2020

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Outcome	Related Foundational Studies or Graduate Goal
Identify, describe, and classify common hazards (workplace and general)	
1.1 Identify common hazards in the workplace and general	
1.2 Describe common hazards in the workplace and general	
1.3 Classify common hazards in the workplace and general	
Assess and explain risk and the different perceptions of risk by individuals and segments of the population	
2.1 Assess risk as it pertains to occupational safety management	
2.2 Explain individuals' perceptions of risk	
2.3 Explains risk for different segments of the population	
Prepare safety and health education and training materials	
3.1 Develop content-specific safety training programs	
3.2 Demonstrate proficiency in small group presentations	
3.3 Develop effective written presentation skills: Students will produce professional written safety training programs	

Safety procedures, training and engineering—Determine the proper method of managing workforce acceptance of safety procedures, training, and engineering	
4.1 Principles of engineering/workplace hazard resolution: Students will use applied engineering to resolve workplace hazards	
4.2 Develop administrative controls for hazard resolution: Students will utilize administrative controls to reduce workplace hazards	
4.3 Select appropriate personal protective equipment: Students will correctly identify appropriate PPE to protect workers when engineering or administrative controls are inadequate	
4.4 Develop written training programs: Students will develop written training programs to educate workers in the proper use of hazard controls	
Incident reporting—Select the proper collection, reporting, and summarization methods for incident reporting	
5.1 Select proper data collection methods: Students will demonstrate knowledge of criteria for determining recordable incidents	
5.2 Select proper paper/electronic incident reporting forms: Students will demonstrate proficiency in completing OSHA 300 log and OSHA 301 Supplemental record with both paper and electronic forms	
5.3 Select proper incident data summarization: Students will demonstrate proper use of OSHA 300A Summary and incident rate calculation	
Prevent injuries and property losses—Prioritize and recommend the proper action level (design, safety device, warning device, training, or PPE) and control techniques for loss exposure (engineering controls, administrative control, or PPE to prevent injuries and property losses	
6.1 Prioritize hazard control: Students will incorporate hazard control and management techniques into class projects	
6.2 Recommend action levels: Class project will include student recommendations for reducing or eliminating hazards that lead to injuries and property losses	
Necessary quantitative and analytical skills—Gain the necessary quantitative and analytical skills to manage a safety department regarding the economic, financial, and decision-making aspects of safety management	

<p>7.1 Identify system safety and job safety analysis methods, procedure, and forms: Develop comprehensive description of system safety engineering and safety management fundamental concepts and techniques</p>	
<p>7.2 Describe statistical values and probabilities of accidents for system safety analysis: Demonstrate ability to describe and use statistical values and probabilities of accidents for system safety analysis</p>	
<p>7.3 Describe methods of economic, financial, and decision-making aspects of safety management: Demonstrate ability to properly describe and apply methods of economic, financial, and decision-making aspects of safety management</p>	
<p>Adherence to professional and ethical standards—Demonstrate adherence to professional and ethical standards and become an advocate for the safety profession through development of standards, increasing knowledge base, and participating in the appropriate professional activities.</p> <p>Based on the scientific and appropriate research methods and data analysis, students are required to define research goal(s) and hypotheses, conduct literature review, collect data, conduct data analysis (statistical or others) and draw conclusions accordingly. Due to the unique nature of each project, the details are different but the overall approach is the same and students are required to present and defend their proposal and their final reports in oral and written format. The goal of this assessment is to determine if the students gain the right skills and knowledge to adhere to professional and ethical standards in order to advocate for safety profession and participate in the professional activities.</p>	
<p>8.1 Demonstrate ethical methods in conducting research: Students must successfully complete online IRB training modules and obtain committee approval of project proposals</p>	
<p>8.2 Develop effective oral and written communication skills: Students will prepare professional project proposals and field research project reports or a thesis and orally defend the project or thesis to their committee</p>	
<p>8.3 Promote continuing educational opportunities: Students are encouraged to join professional organizations such as ASSE, NSC, AIHA</p>	
<p>8.4 Student participation: Graduate students are encouraged to participate in national and international</p>	

professional conferences through technical paper submissions and presentations	
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