BCP 8833:
Occupational Safety and Health Principles and Applications
Fall 2023

Instructor

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Office Hours

Office hours will be conducted on Mondays, 6:30 – 7:30 pm Eastern Time, via the Zoom link provided on the course website. We reserve the right to make slight adjustments as individual instructor schedules may vary. All sessions will be recorded and made available for review. Please allow 24-48 hours for link availability.

Contact Information

- For general course or questions about a specific assessment, contact the course facilitator, Paul Schlumper.
- For technical issues, contact Canvas technical support using the "Help" button in Canvas.

Course Description

This course examines the principles and practices needed to address occupational safety and health issues in the workplace. Students will discuss various aspects of safety and health management systems and utilize regulatory standards as a guide to apply policies, procedures, standards and occupational safety and health principles. Industry-recognized best practices, origins of the standards, the process and rules of inspections, policies, citations, and penalties will be covered.

Prerequisites: MGT 6114/BCP 8803

Textbooks:

- Goetsch, David L. Occupational safety and health for technologists, engineers, and managers. Prentice Hall, Pearson, 2023. (10th Edition).
- Manuele, Fred A. Advanced safety management focusing on Z10, 45001, and serious injury prevention. Wiley, 2020. (3rd Edition)

Other Readings/Resources:

- Selected readings and case studies.
- Relevant Federal regulations.

Course Objectives:

1. Discuss the history of occupational safety and health and the roles/responsibilities of the safety and health team members
2. Review and discuss aspects of occupational safety and health management systems
3. Recognize and evaluate occupational safety and health hazards in general industry and construction workplaces
4. Review hazard identification and assessment techniques through site assessments
5. Implement hazard control methods based on the hierarchy of controls, effective safety and health management systems, and task-oriented training

Grading

1. Students are required to participate in the online learning platform through discussion boards. Instructors will monitor participation and engage online with students.
2. Assignments include independent research to identify and evaluate a current occupational safety and health topic or event. **Assignments turned in late without a valid excuse will be subject to reduction in points: 20% of the total available points will be deducted for assignments received 1-3 days late; assignments received more than 3 days late will receive 0 points.**
3. The final exam will test student understanding of lesson content, reading assignments, and course instruction.
4. Your final grade will be assigned as a letter grade according to the following scale: A = 90-100%
   B = 80-89%
   C = 70-79%
   D = 60-69%
   F = 0-59%

Learning Accommodations

If needed, we will make accommodations for students with documented disabilities. These accommodations must be arranged in advance and in accordance with the Office of Disability Services.

Academic Integrity

Academic honesty and integrity are vitally important to successful completion of this course. Students are expected to be very familiar with what constitutes plagiarism. Students are encouraged to study together and collaborate on case studies, but each student must submit his/her own work unless the assignment is specifically structured as a group assignment/project. Any reference sources (including online sources) used to prepare written assignments must be paraphrased in your own words and cited. Wikipedia references *will normally not* be accepted as sources. Only scholarly sources will be acceptable. Students are neither to receive nor provide help to others during exams. Any student suspected of behavior in violation of the Georgia Tech Honor Code will be referred to the Office of Student Integrity.

Course Schedule:

Week	Dates	Topic	Assessments
1 & 2	Oct 16-22 Oct 23-29	**Overview of Occupational Health and Safety Principles.** **Overview**: In this module, we will discuss the history and current trends in occupational health and safety, the occupational safety and health regulatory bodies, research, requirements, and industry best practices. **Pre-Reading**: Read Goetsch, Chapter 1, 4, and 6 (pgs. 89-121)	• OSH Team Discussion • OSHA Short Essays • Thoughts on OSHA Discussion • OSH Team Member Interview
3	Oct 30-Nov 5	**Basic Principles of Safety and Health Program Management** **Overview:** This week we will first focus on the importance of Management Commitment and Employee Involvement, Policy Statements, Resource Requirements, Leadership, Safety and Safety Committees. Then, we will also focus on Hazard Analysis and Hazard Prevention which will include the difference between Inspections & Audits as well as Documentation requirements, and the effective Communication of Hazards. **Pre-Reading:** Read Manuele, Chapter 1, 2, 8	• Safety and Health Program Management Infographic Assignment
4	Nov 6-12	**Hazard Recognition and Control in the General Industry and Construction Environment** **Overview**: In this module, we will focus on the recognition and control of hazards in general industry and construction environments. We will analyze the nature of general industry and construction sites, workforce issues, multi-employer worksites, and special hazards in these industries.	• General Industry Assignment • Construction Assignment

Week	Dates	Topic	Assessments
		Pre-Reading: Read Goetsch, Chapter 6 (pgs. 126- 132) Review Goetsch, Chapter 6, (pg. 135-136)	
5	Nov 13-19	**Hazard Recognition & Site Assessments** **Overview**: In this module, we will learn the difference between hazards and risks. Also, we will discuss the methods and tools used to perform site assessments. **Pre-Reading**: Review Goetsch, Chapter 6, pg. 108-109 (Workplace Inspections) **Pre-Reading**: Read Manuele, Chapter 11	• Mock Site Assessment, Part 1
6	Nov 27-Dec 3	**Hazard Analysis, Control, and Prevention** **Overview**: In this module, we will learn how to analyze hazards and risks. We will also focus on the methods used to prevent hazards, promote safety, and define value. **Pre-Reading**: Read Goetsch, Chapter 27 **Pre-Reading**: Read Manuele, Chapter 12	• Mock Site Assessment, Part 2
7	Dec 4-10	**Safety and Health Training** **Overview**: In this module, we will address training in the workplace, including OSHA guidelines for training programs. **Pre-Reading**: Goetsch, Chapter 12 **Pre-Reading**: OSHA Publication #3824 (available on www.osha.gov) **Pre-Reading**: OSHA Publication #2254 (available on www.osha.gov)	• Training in the Workplace Assignment • Final Exam opens.
	Dec 7-14	Final Exam	

For a detailed listing of all of the assignments and the due date for each, please see the next page.

Assessment Schedule

Week Assigned	Assessment	% of Overall Grade	Due Date (by 11:55 pm)
Week 1	OSH Team Discussion	5%	Initial Post: Monday, Oct 16 Reply Posts: Sunday, Oct 22
Week 1	OSHA Short Essays	5%	Tuesday, Oct 24
Week 2	Thoughts on OSHA Discussion	5%	Initial Post: Wednesday, Oct 25 Reply Posts: Sunday, Oct 29
Week 2	OSH Team Member Interview	10%	Tuesday, Oct 31
Week 3	Safety and Health Program Management Infographic	5%	Tuesday, Nov 7
Week 4	General Industry Scenarios Assignment	10%	Tuesday, Nov 14
Week 4	Construction Assignment	10%	Tuesday, Nov 14
Week 5	Mock Site Assessment, Part 1	10%	Tuesday, Nov 28
Week 6	* Mock Site Assessment, Part 2	10%	Tuesday, Nov 28
Week 7	Training in the Workplace Assignment	5%	Tuesday, Dec 5
Week 7	Final Exam	25%	Opens: Thursday, December 7 Closes: Thursday, December 14