Course Description

Overview of regulations and issues in the occupational safety and health profession. Examines the underlying cause mechanisms of health and safety hazards, along with recordkeeping standards and analysis of injury and illness statistics.

Prerequisites

None

Course Textbook


Course Learning Objectives

Upon completion of this course, students should be able to:

1. Manage effective programs for worker safety and health in businesses and industry.
2. Describe an array of different approaches for dealing with workplace hazards.
3. Analyze and discriminate between alternative methods of compliance with standards and hazard avoidance.
4. Describe the costs of compliance as compared with the costs of Workers’ Compensation and the hidden costs of hazards.
5. Explain the design of facilities for compliance with standards and for controlling of hazards.
6. Summarize required procedures for recordkeeping and reporting to government agencies.
7. State the rationale for and the various safety and health issues underlying the provisions of established standards.
8. Provide practical application for scientific principles of physics, chemistry, and biological sciences learned earlier in their academic careers.
9. Describe the functions of OSHA, MSHA, NIOSH, EPA, and other federal agencies that conduct inspections and enforce standards.
10. Explain the basic process and the concept of national consensus standards, including the variance and appeals process.
11. Compare vertical with horizontal and specification with performance standards.
12. Explain the principles of safety and health that apply to their personal conduct at home and off the job, as well as on the job.

Credits

Upon completion of this course, the students will earn three (3) hours of college credit.

Course Structure

1. **Unit Learning Objectives**: Each unit contains Unit Learning Objectives that specify the measurable skills and knowledge students should gain upon completion of the unit.
2. **Written Lectures**: Each unit contains a Written Lecture, which discusses lesson material.
Assignments

Unit II Assignment

Resource Guide

Using case study 6.1 found on page 132-133 in your textbook as a guide, create hazardous chemical information for process safety analysis for the dangers of hydrochloric acid. You will need to use CSU library and the internet to find information regarding standard chemicals.

Make sure to cite your sources at the end of your document. Use Word to create your analysis.

Unit IV Article Critique

The Article Critique for this course must be a minimum of two pages to a maximum of four pages in length, double-spaced, and must follow APA style. You are to choose from the journals and articles available in our CSU Library Databases. The article may deal with any of the material presented in the first three units of this course. However, if you have a specific area of interest that is covered later in the course, you may ask for professor approval. The article itself must be more than one page in length. The Article Critique must include the following components:

1. A brief introduction to the article
2. Summary and analysis of the key points in the article
3. Whether or not the article supports the concepts as presented in the textbook
4. Summary of the article’s conclusions and your own opinions
5. Full APA reference citation and in-text citations for the article

Some suggested topics might be:

- The organizational role of the safety professional
- The “business” of safety
- Hazard avoidance models
- Current regulatory trends in Occupational Safety and Health
- The safety professional’s role in disaster preparedness
- Workplace standards
- Current occupational health issues

The EBSCO Database (Business Source Complete) is a good source of journals for safety related articles from the CSU Online Library.
Unit VII Assignment

Safety Plan

You are the safety and occupational health professional for your city’s Health Department. You received a call from a major food distribution warehouse that some employees are complaining of dizziness and feeling sick.

When you arrive on scene, you are in a very large warehouse, a significant portion of which is refrigerated. The illnesses are being reported from a refrigerated section (about 40 degrees F) where workers are blister packing food products on a production line. The warehouse has 20 loading docks, two railroad car lines that end directly inside the warehouse (in close proximity to the production area), a dozen or so gas powered forklifts, and no sensors or environmental monitors of any kind except those associated with the refrigeration systems.

The warehouse manager is cooperative, but he points out that he is in the middle of contract negotiations with the union. He is also very proud of the fact that they have special seals on the loading dock doors and throughout the warehouse to keep the cold in and the heat out.

You cannot identify any discernible odors other than the exhaust from the forklifts when they move by you. There are four ladies waiting for you in the break room complaining of dizziness and lightheadedness. They are all comparing and complaining about their symptoms. There are 14 employees who work in this area of the warehouse – 12 women and 2 men.

Instructions:

Based on the given scenario, develop a plan of action that includes how you would conduct the investigation, state how you would identify possible sources of the problem, and provide your opinion on the likely source. Discuss the standards applicable to possible sources. Include several recommendations you would make to the manager to help solve the problem based on your research into documented best practices for similar situations. (You may make assumptions about the scenario in order to propose solutions – just be certain to state your assumptions clearly).

The Case Study must be a minimum of four pages to a maximum of six pages in length, double-spaced, and should follow APA rules for formatting, quoting, paraphrasing, citing, and listing of sources. Use Microsoft word to create your response to the case study.

Information about accessing the Blackboard Grading Rubric for this assignment is provided below.

APA Guidelines

CSU requires that students use the APA style for papers and projects. Therefore, the APA rules for formatting, quoting, paraphrasing, citing, and listing of sources are to be followed. A document titled “APA Guide” is available for you to download from the APA Guide link, found in the Learning Resources area of the myCSU Student Portal. It may also be accessed from the Student Resources link on the Course Menu. This document includes examples and sample papers and provides links to The CSU Success Center and the CSU Online Library staff.

Blackboard Grading Rubrics

Assignment Rubrics

One or more assignments in this course utilizes a Blackboard Grading Rubric. A rubric is a tool that lists evaluation criteria and can help you organize your efforts to meet the requirements of an assignment. Your professor will use the Blackboard Grading Rubric to assign points and provide feedback for the assignment.

You are encouraged to view the assignment rubric before submitting your work. This will allow you to review the evaluation criteria as you prepare your assignments. You may access the rubric in “My Grades” through the “Tools” button in your course menu. Click the “View Rubric” link to see the evaluation criteria for the assignment. Upon receiving your assignment grade, you may view your grade breakdown and feedback in the rubric.
CSU Grading Rubric for Papers/Projects

The course papers will be graded based on the CSU Grading Rubric for all types of papers, unless otherwise specified within assignment instructions. In addition, all papers will be submitted for electronic evaluation to rule out plagiarism. Course projects will contain project specific grading criteria defined in the project directions. To view the rubric, click the Academic Policies link on the Course Menu, or access it through the CSU Grading Rubric link found in the Learning Resources area of the myCSU Student Portal.

Final Examination Guidelines

Final Examinations are to be administered to students by an approved proctor on a date that is mutually convenient. The student is responsible for selecting a qualified proctor that must be approved by the university.

A list of acceptable proctors is provided in the Examination Proctor Policy. To review the complete Examination Proctor Policy including a list of acceptable proctors, proctor responsibilities, proctor approval procedures and the Proctor Agreement Form, go to the myCSU Student Portal from the link below.

http://mycsu.columbiasouthern.edu

You are permitted four (4) hours to complete this exam, in the presence of your approved proctor. This is an open book exam. Only course textbooks and a calculator, if necessary, are allowed when taking proctored exams.

Communication Forums

These are non-graded discussion forums that allow you to communicate with your professor and other students. Participation in these discussion forums is encouraged, but not required. You can access these forums with the buttons in the Course Menu. Instructions for subscribing/unsubscribing to these forums are provided below.

Once you have completed Unit VIII, you MUST unsubscribe from the forum; otherwise, you will continue to receive e-mail updates from the forum. You will not be able to unsubscribe after your course end date.

Click here for instructions on how to subscribe/unsubscribe and post to the Communication Forums.

Ask the Professor

This communication forum provides you with an opportunity to ask your professor general or course content questions. Questions may focus on Blackboard locations of online course components, textbook or course content elaboration, additional guidance on assessment requirements, or general advice from other students.

Questions that are specific in nature, such as inquiries regarding assessment/assignment grades or personal accommodation requests, are NOT to be posted on this forum. If you have questions, comments, or concerns of a non-public nature, please feel free to email your professor. Responses to your post will be addressed or emailed by the professor within 48 hours.

Before posting, please ensure that you have read all relevant course documentation, including the syllabus, assessment/assignment instructions, faculty feedback, and other important information.

Student Break Room

This communication forum allows for casual conversation with your classmates. Communication on this forum should always maintain a standard of appropriateness and respect for your fellow classmates. This forum should NOT be used to share assessment answers.

Grading

Assessments (Unit I, III, V, and VI (4 @ 12%) = 48%
Assessments (Unit II and VII (2 @ 6%) = 12%
Unit II Resource Guide = 10%
Unit IV Article Critique = 6%
Unit VII Safety Plan = 11%
Final Exam = 13%
Total = 100%

Course Schedule/Checklist (PLEASE PRINT)

The following pages contain a printable Course Schedule to assist you through this course. By following this schedule, you will be assured that you will complete the course within the time allotted.
Course Schedule

By following this schedule, you will be assured that you will complete the course within the time allotted. Please keep this schedule for reference as you progress through your course.

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## Unit IV
### Mid-Term Review and Article Critique

**Review:**
- Unit Study Guide

**Read:**
- Chapter 1 – 9: Review course material
- **Supplemental Reading:** See Study Guide

**Submit:**
- Article Critique

**Notes/Goals:**

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## Unit V
**Environmental Hazards, Hazardous Materials, and Personal Protective Equipment**

**Review:**
- Unit Study Guide
- **Learning Activities (Non-Graded):** See Study Guide

**Read:**
- Chapter 10: Environmental Control and Noise
- Chapter 11: Flammable and Explosive Materials
- Chapter 12: Personal Protection and First Aid

**Submit:**
- Assessment

**Notes/Goals:**

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## Unit VI
**Fire Protection, Material Handling, and Machine Guarding**

**Review:**
- Unit Study Guide
- **Learning Activities (Non-Graded):** See Study Guide

**Read:**
- Chapter 13: Fire Protection
- Chapter 14: Materials Handling and Storage
- Chapter 15: Machine Guarding

**Submit:**
- Assessment

**Notes/Goals:**
## Unit VII

### Welding, Electrical Safety, and Construction Hazards

**Review:**
- Unit Study Guide
- **Learning Activities (Non-Graded):** See Study Guide

**Read:**
- Chapter 16: Welding
- Chapter 17: Electrical Hazards
- Chapter 18: Construction

**Submit:**
- Assessment
- Safety Plan
- Request to take Final Exam

**Notes/Goals:**

## Unit VIII

### End of Course Review

**Review:**
- Unit Study Guide

**Read:**
- Chapter 10 – 18: Review course material
- **Supplemental Reading:** See Study Guide

**Submit:**
- Final Exam

**Notes/Goals:**