



Revised by: D. Thornsberry
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Semester effective: Fall 2017

Industrial Education Safety (IES) 1500 Occupational Safety and Health Compliance (3 Units) CSU

Advisory: Eligibility for English 1500 strongly recommended

Total Hours: 48 hours lecture

Catalog Description:

This course covers the laws and regulations pertaining to industrial occupational safety, the history of occupational safety, current legislation, and the development of the Occupational Safety and Health Administration (OSHA) Worker's Compensation and benefit laws, risk management, product safety and liability, and monitoring hazards in the workplace are covered.

Type of Class/Course: Degree Credit

Text: National Safety Council. *Accident Prevention Manual for Business & Industry: Administration and Programs*. 13th Edition. Chicago: National Safety Council, 2009. Print.

Course Objectives:

By the end of the course a successful student will be able to:

1. assess the roles and responsibilities of the occupational safety professional, and apply these ideas during classroom discussion, oral presentations and written assessments,
2. appraise the statutes and regulations, which relate to employee and public safety,
3. interpret the scope of understanding of the laws and regulations, the application of the laws and regulations, and the liabilities and penalties contained in the laws and regulations,
4. categorize how regulatory agencies and other authorities provide program guidelines for safety,
5. distinguish between regulations and recommendations from various safety organizations,
6. recognize chemical agents and airborne materials; explain how they affect humans, and access the degree of hazard,
7. explain the concepts of workers' compensation and workers' benefits,
8. demonstrate a working knowledge of workers' compensation, benefits laws, and incident investigation,
9. describe personal factors in safety, product safety and liability,
10. demonstrate a working knowledge of monitoring hazards in the workplace and the subsequent documentation of inspections and,
11. predict potential hazards in the workplace and the subsequent problems they pose.



Course Scope and Content

Unit I Introduction

- A. Accidents & Incidents
- B. Near misses
- C. Safety pyramid

Unit II Legislation & Regulations

- A. Safety legislation
- B. Occupational Safety and Health Administration (OSHA) related federal regulations
- C. Agencies created by OSHA

Unit III California Occupational Safety and Health Administration (Cal OSHA)

- A. Cal OSHA Historical review
- B. Cal OSHA Appeals Board
- C. Cal OSHA Standards Board Occupational Injury and Illness Program Consultation
- D. Hazardous Substance Information and Training Act
- E. Federal OSHA Hazard Communication Standard Hearing Conservation Act

Unit IV Occupation Health

- A. Introduction
- B. Chemical agents - How chemicals affect the body: routes of entry?
- C. Personal Protection Equipment (PPE)
- D. Pharmacological classifications of airborne materials
- E. Degree of hazard

Unit V Workers Compensation & Risk Management

- A. Introduction
- B. Compensation laws
- C. Workers compensation application & procedures
- D. Incident investigations
- E. Risk management
- F. Planning, development, and implementation
- G. Risk management analysis

Unit VI Safe Behavior

- A. Motivation for safe behavior, operation, function
- B. Supplying incentives
- C. Requirements for successful motivation
- D. Application to industrial setting

Unit VII Personal Safety & Liability

- A. Introduction



- B. Personal safety and liability
- C. National Commission on Product Safety Development of product liability
- D. Insurance ramifications to manufacturer negligence
- E. Manufacturer's defense elements of a safety assurance program

Unit VIII Inspection & Monitoring the Workplace

- A. Monitoring the workplace for hazard
- B. Definition & Types of inspections
- C. Inspection procedures
- D. Preparing for inspection
- E. Performing an inspection
- F. Documentation
- G. Interpret Evaluation Results

Learning Activities Required Outside of Class:

The students in this class will spend a minimum of 6 hours per week outside of the regular class time doing the following:

1. Studying assigned text, handout materials, and class notes
2. Reviewing and preparing for quizzes and examinations
3. Reviewing case studies
4. Completing written assignments and projects

Methods of Instruction:

1. Lecture and discussions
2. Group Activities/Projects
3. Presentations
4. Guest lectures/presentations

Methods of Evaluation:

1. Quizzes
2. Exams
3. Participation
4. Individual and group exercises and projects
5. Reports and written assignments
6. Oral Presentations

Supplemental Data:

TOP Code:	095670: Indus Occupational Safe Health
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SAM Priority Code:	C: Clearly Occupational
Distance Education:	Not Applicable
Funding Agency:	Y: Not Applicable(funds not used)
Program Status:	I: Program Applicable
Noncredit Category:	Y: Not Applicable, Credit Course
Special Class Status:	N: Course is not a special class
Basic Skills Status:	N: Course is not a basic skills course
Prior to College Level:	Y: Not applicable
Cooperative Work Experience:	N: Is not part of a cooperative work experience education program
Eligible for Credit by Exam:	NO
Eligible for Pass/No Pass:	NO
Taft College General Education:	NONE