

NorthWest Arkansas Community College
OSHA 2003 Introduction to Industrial and Occupational, Safety and Health
Standard Course Outline

Catalog Description:

Provides an overview of the career field of safety and health. Safety and health legal issues facing industry in dealing with federal regulations will be covered and what companies must do to comply will be addressed. This course is designed to teach the proper methods and techniques of organizing a plant safety program, to include inspection, control procedures, human factors engineering, human behavior and safety training techniques.

Prerequisite:

There are no prerequisites for this course.

Credit hours/ Contact hours/ Load hours:

3/3/3

Required Methods of Instruction

Students will have the opportunity to learn through lecture, video, overhead, and discussion groups, projector slides, and lab practice with equipment to reinforce learning that occurred in the classroom.

Target Audience & Transfer:

Designed for students majoring in environmental and regulatory science, this course provides an introduction to the occupational safety and health career. Successful completion of this course should prepare students for successful further study in environmental and regulatory science. This is not a transfer course to the University of Arkansas at Fayetteville. This is a transfer course to the University of Arkansas at Pine Bluff and Department of Environmental Health at Missouri Southern State College.

Essential Course Outcomes:

The student will gain a basic understanding of the development of the safety and health function and the impact of federal regulation. The course will provide information about the history, purposes, and mission of key regulatory agencies including OSHA, EPA, and DOT.

The student will understand the concepts of hazard identification and hazard avoidance with an understanding of sources of work practices and standards.

The student will gain knowledge related to information systems available for safety and health professionals; this includes internet accessing.

The student will be able to identify federal regulations and environmental controls for safety and health.

Higher Order thinking Skills

Apply their understanding of the principles of scientific investigation to comprehend, evaluate and solve problems of an environmental and regulatory nature.

Information Literacy:

Identify and use computer information sources to further their knowledge of environmental and regulatory science.

Required Text(s):

Occupational Safety and Health ---David Goetsch ISBN -0-13-924085-3
29 CFR 1910 General Industry Standards (CCH) ISBN - 0-8080-02457

Topics Covered:

- Describe the significance of environmental safety and ISO 14000.
- Understand how network participation affords a convenient and unobtrusive way for the student to learn.
- Describe how the Internet allows easy access to vast amount of information in the filed of occupational safety and health.
- Understand the roles and professional certifications for safety and health personnel.
- Describe the roles and resources for accident investigation.
- Discuss the development of the Safety and Health movement.
- Discuss the theories of accident causation.
- Explain the OSHAct, standards and liability.
- Discuss an overview of workers' compensation.
- Design and compare various approaches to safety analysis and prevention.
- Discuss and design programs for promoting safety.

- Develop a safety and health training program.
- Discuss ethics and safety .

Required Methods of Assessment

Students will be given periodic exams covering selected topics of the course so that when the course has been completed, students will have been tested on all topics stated above. Each test will contain a critical thinking element to measure the students understanding of analytical matters and their competency in rational thinking.

Resources

Video Library Safety/Health Topics

Hazard Communication

Process Safety

Industrial Noise

Personal Protective Equipment

Confined Space Entry

Emergency Evacuation

Industrial Forktrucks

Cranes and Slings

Machine Guarding

Electrical Hazards

Lockout/Tagout

Ladders

Trenching and Shoring

Bloodborne Pathogens