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Industrial Education Safety (IES) 1067 Guide to Industrial Hygiene (1.5 Units)
[formerly Industrial Education Safety 63]

Prerequisite: None

Total Hours: 26 hours lecture

Catalog Description: This course covers industrial hygiene practices and related Occupational Safety and Health Administration (OSHA) regulations and procedures. Topics include permissible exposure limits, OSHA health standards, respiratory protection, engineering controls, hazard communication, OSHA sampling procedures and strategy, workplace health program elements, and other industrial hygiene topics. The course features workshops in health hazard recognition, OSHA health standards, and a safety and health program workshop. This course is offered on a Pass/No Pass basis with the option to receive a letter grade.

Type of Class/Course: Degree Credit

Textbook: *29CFR 1910 General Industry Regulations*. Davenport, IA: Mangan Communications, Inc., 2008. Print.

Cal-OSHA General Industry Safety Orders. Davenport, IA: Mangan Communications, Inc., 2010. Print.

Additional Required Materials: None

Course Objectives:

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

1. interpret requirements of OSHA health standards,
2. recognize potential health hazards in the workplace,
3. perform basic health hazards evaluation using OSHA sampling procedures,
4. list acceptable strategies for controlling hazardous conditions, and
5. describe the elements required for an effective workplace health protection program.

Course Scope and Content:

- Unit I Standards I
- A. Safety and Health Programs
 - B. Air Contaminant Standards
 - C. Asbestos Standard
 - D. Detector Tube Sampling
 - E. Cal-OSHA Equivalents and Differences
- Unit II Standards II
- A. Ventilation Standard
 - B. Noise Standard
 - C. Respirator Standard
 - D. Cal-OSHA Equivalents and Differences
- Unit III Standards III
- A. Hazard Communication
 - B. Ergonomic Guidelines
 - C. Confined Space Standard
 - D. Cal-OSHA Equivalents and Differences

- Unit IV Standards IV
- A. Hazardous Waste Standard
 - B. Bloodborne Pathogens Standard
 - C. Recordkeeping
 - D. Health Hazard Recognition
 - E. Cal-OSHA Equivalents and Differences

Learning Activities Required Outside of Class: None

Methods of Instruction:

- 1. Lecture
- 2. In-class workshops

Methods of Evaluation:

- 1. Written final exam
- 2. Student performance observation