COURSE INFORMATION FORM

DISCIPLINE: EHSS  
COURSE TITLE: Principles of Industrial Hygiene  
CR.HR: 3  
LECT HR: 3  
LAB HR:  
CLIN/INTERN HR:  
CLOCK HR:  

CATALOG DESCRIPTION

This course presents the fundamentals of hazard identification and control related to industrial applications and worker health exposures. Information is given in key areas that cover recognition, evaluation, and control of toxic materials and the effects on the body, radiation, ventilation, thermal stress and ergonomics. Upon satisfactory completion students will receive a certificate in OSHA 521 (Guide to Industrial Hygiene).

PREREQUISITES

EHSS 200

EXPECTED STUDENT OUTCOMES IN THE COURSE (ESO)

Upon completion of this course, the student will be able to:

1. Recognize and control health hazards.
2. List methods of hazard recognition.
3. Recognize noise, temperature control, ergonomics and physical hazards.
4. Describe the sensitive parts of the body and how chemicals may affect them.
5. Define the differences and uses between general and local ventilation.
GENERAL EDUCATION OUTCOMES (ESO)
Specify which general education outcomes, if any, are substantially addressed by the course. Numbers in parentheses identify the Expected Student Outcomes linked to the specific General Education Outcome.

<table>
<thead>
<tr>
<th>Outcomes</th>
<th>ESO</th>
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PROGRAM-LEVEL OUTCOMES

CAREER AND TECHNICAL EDUCATION PROGRAM OUTCOMES
Specify which Career and Technical program outcomes, if any, are substantially addressed by the course by completing the “Career and Technical Education template” to show the relationship between course and program outcomes to assessment measures.

1. Students will demonstrate the ability to apply foundational skill in an industrial setting, safely and to industry guidelines.
2. Students will think critically and apply problem-solving skills.
3. The program will graduate individuals who exhibit competence in the entry-level skills of technical profession environmental health and safety technology.
4. The program will graduate individual who can interact and communicate with managerial, supervisory, labor and external public using a combination of skills for a clear exchange of ideas and information.

CLASS-LEVEL ASSESSMENT MEASURES
Student accomplishment of expected student outcomes may be assessed using the following measures. (Identify which measures are used to assess which outcomes.)

1. Assignments (1-5)
2. Written examinations (1-5)
3. Student participation (1-5)

Revised 7/31/13
Individual instructors may order this outline as fits the needs of their individual courses. In addition, they may place more emphasis on some areas than on others. What is assured is that this particular list is covered in the course. Other topics may be added to a course as the instructor sees fit, and as time and interest allow. An *asterisk can be used to mark an item as optional.

I. History

II. Anatomy, Physiology and Pathology
   A. Lungs
   B. Skin and Occupational Dermatitis
   C. Ears
   D. Eyes

III. Recognition of Hazards
   A. Toxicology
      1. Gases, Vapors and Solvents
      2. Particulates
   B. Noise
   C. Radiation
      1. Ionizing
      2. Nonionizing
   D. Thermal Stress
   E. Ergonomics
   F. Biological Hazards

IV. Evaluation of Hazards
   A. Evaluation
   B. Air Sampling
   C. Direct Reading Instruments

V. Control of Hazards
   A. Ventilation
   B. Respiratory Protection
   C. Personal Protective Equipment