



Basic Course in Occupational Medicine, Part III

Learning Objectives

A. Overview

At the end of the presentation the attendee will be able to:

- Introduce participants to the College, the CAQ and the Board of Preventive Medicine
- Preview the Basic Course in Occupational and Preventive Medicine
- Discuss Occupational Medicine as a Career
- Provide a pre-test to participants

B. Noise Induced Hearing Loss

At the end of the presentation the attendee will be able to:

- Discuss the costs of hearing loss
- Describe the basics of hearing
- Identify the Types of hearing loss
- Develop the essentials of a good hearing conservation program
 - Noise Monitoring
 - Periodic Audiometric evaluation
 - Engineering Controls
 - Worker Education
 - Selection of appropriate HPDs
 - Administrative Controls

C. Occupational Cancer Risk

At the end of the presentation the attendee will be able to:

- Discuss potential causes of occupational related cancers
- Discuss estimates of rates of occupational exposures causing human cancers
- Identify the Initiation, Promotion, and Progression of occupational related cancers

D. Psychiatric Aspects of Occupational Medicine

At the end of the presentation the attendee will be able to:

- Relate the biopsychosocial model of psychiatric disease to occupational medicine.
- Discuss the epidemiological implications of the work environment, industrial organization, and cultural relationships.
- Examine the spectrum of occupational psychiatric disease
- Identify areas of controversy in occupational psychiatric disorders
- Offer relevant management/treatment strategies

E. Ionizing and Non-Ionizing Radiation

At the end of the presentation the attendee will be able to:

- Apply epidemiological principles in the approach to assessing exposures to radiation.
- Understand the concepts & definitions of various types of ionizing radiation (IR) and non-ionizing radiation (NIR) and distinguish the differences between the various types of exposure.
- Diagnose the biologic effects of IR in man.



- Diagnose the biologic effects of NIR in man.
- Utilize therapeutics strategies for radiation exposures

F. Disability/Impairment Evaluations

At the end of the presentation the attendee will be able to:

- Compare and contrast three types of disability or income replacement programs
- Review the Physician's role in the disability process
- Effectively participate in the three different programs
- Appropriately utilize Independent Medical Examiner (IME)
- Recognize the characteristics of a good IME

G. Reproductive Issues in the Workplace

At the end of the presentation the attendee will be able to:

- Be able to cite some important court decisions regarding reproductive health issues in the workplace
- Be able to describe the difference between reproductive hazards and teratogens
- Be able to describe background rates of infertility and sub-fertility, miscarriage and stillbirths, birth defects, low birth weight and premature birth, developmental disorders, and childhood cancers
- Be able to list some suspected reproductive hazards and the suspected consequences of their exposures
- Be able to describe some prevention strategies to minimize exposure to workplace reproductive hazards

H. Occupational Pulmonary Disorders

At the end of the presentation the attendee will be able to:

- Define key terms, phrases and exposures relevant to Occupational induced Pulmonary disorders
- Discuss the health impact and the major causes of morbidity and mortality due to Cardiopulmonary Occupational diseases
- Describe the features of Cardiopulmonary diseases: burden of illness, risk factors/etiology, prevention strategies
- Discuss the key components of an occupation evaluation and demonstrate the ability to utilize screening, diagnostic and monitoring modalities

I. Occupational Cardiovascular Disorders

At the end of the presentation the attendee will be able to:

- Define key terms, phrases and exposures relevant to occupational induced Cardiovascular disorders
- Discuss the health impact and the major causes of morbidity and mortality due to Cardiovascular occupational diseases
- Describe the features of Cardiovascular diseases: burden of illness, risk factors/etiology, prevention strategies
- Discuss the key components of an occupation evaluation and demonstrate the ability to utilize screening, diagnostic and monitoring modalities