# Occupational Medicine

## 2017 Examination Blueprint

<table>
<thead>
<tr>
<th>Core Content Areas</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>I. Prevention, Exposure Assessment, Hazard Recognition and Control</td>
<td>20%</td>
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<tr>
<td>II. Clinical Patient Care</td>
<td>60%</td>
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<tr>
<td>III. OEHS Administration and Systems-Based Practice</td>
<td>20%</td>
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</tbody>
</table>

### I. Prevention, Exposure Assessment, Hazard Recognition and Control

#### A. Hazard Characterization
1. Walk through assessment
2. Industrial hygiene surveys

#### B. Toxicological Principles
1. Toxicokinetics
2. Carcinogenesis
3. Hydrocarbons & solvents
4. Metals
5. Gases
6. Dusts
7. Pesticides
8. Nitrogen Compounds
9. Chemical Warfare agents

#### C. Ergonomics
1. Evaluation
2. Control

#### D. Physical Hazards
1. Ionizing radiation
2. Non-ionizing radiation
3. Noise
4. Dysbarism
5. Temperature
6. Mechanical & electromagnetic
7. Vibration
8. Lasers

#### E. Chronobiology
1. Fatigue
2. Shift work
3. Travel

#### F. Occupational safety and controls

### II. Clinical Patient Care

#### A. General Patient Evaluation and Testing
1. Exposure & occupational history
2. Causation & Work-relatedness
3. Contributing factors

#### B. Eyes
1. Screening
2. Injury

#### C. Ear, Nose and Throat
1. Noise & solvent induced Hearing Loss
2. Acute Acoustic Trauma
3. Assessment:
   a. Audiometry
4. Barotrauma

#### D. Pulmonary
1. Occupational Disease
   a. Pneumoconiosis
   b. Asthma
   c. Allergic and Immunologic Disease
   d. Inhalation Disorders
   e. Cancer
2. Pulmonary Function Testing
3. Respirator Certification
4. Prevention

#### E. Heart & vascular System
1. Effects of physical & chemical agents
2. Physically and psychologically stressful duties
3. Fitness for duty

#### F. Hepatic and gastrointestinal
1. Liver & biliary tract disorders
2. Cancer
3. Liver function testing

G. Industrial hygiene
1. Engineering Controls
2. Personal protective equipment
3. Administrative Controls

H. Environmental Health

I. Risk Assessment
G. Genitourinary
   1. Renal disorders
   2. Renal & Bladder Cancer

H. Hematology/Oncology
   1. Hematologic Disorders
   2. Hematologic Cancers
   3. Clinical & Laboratory studies
      a. Medical surveillance
      b. Post-exposure

I. Infectious Diseases and Biohazards
   1. Blood borne pathogens
   2. Tuberculosis
   3. Diseases of travelers & workers
   4. Zoonotic disease
   5. Building-related illnesses
   6. Biologic warfare

J. Musculoskeletal
   1. Spine Disorders & Back Pain
      a. Diagnosis & management
      b. Treatment & Prevention
   2. Upper Extremity Disorders
      a. Entrapment Neuropathies
      b. Overuse syndromes
   3. Joint and Extremity injuries & disorders

K. Neurologic disorders
   1. Neurological & mental status exams
   2. Neurotoxic exposures
   3. Central Nervous System Disorders
   4. Peripheral Neuropathy
   5. Interpretation of neurologic testing
   6. Sleep disorders

L. Mental Disorders
   1. Effects on work capacity
   2. Identify, manage & refer impaired employee
   3. Work place stress

M. Reproductive Disorders
   1. Common reproductive toxins and their effects
   2. Risk & Exposure
   3. Protection of fertility

N. Dermatology
   1. Allergic & irritant dermatitis
   2. Urticaria
   3. Infections
   4. Neoplasia
   5. Pigmentation disorders
   6. Work-aggravated dermatoses

O. Clinical Toxicology
   1. Evaluate & treat exposure to toxins

P. Pain Management
   1. Acute & Chronic management

III. OEHS Administration and Systems-Based Practice

A. Surveillance
   1. Principles of surveillance
   2. Occupational Disease Surveillance
   3. Medical surveillance programs in the workplace

B. Medical ethics and confidentiality

C. Regulations
   1. OSHA
   2. EPA
   3. ADA and ADAAA
   4. GINA
   5. FMLA

D. Workers' compensation
   1. Payment principles
   2. Disability assessment

E. Health care delivery systems

F. OEHS program management

G. Health and productivity
   1. Health Risk assessments
   2. Nutrition
   3. Physical activity
   4. Lifestyle Medicine

H. Emergency and disaster management
   1. Programmatic planning
   2. Chemical
   3. Biological
   4. Nuclear

I. Transportation medicine
   1. Commercial Driver Medical Examinations

J. Disability administration
   1. Disability prevention and management
   2. Americans with Disabilities Act
   3. Fitness for Duty and Return to Work

K. Substance use and abuse
   4. Employee Assistance Programs

L. Workplace violence