INDUSTRIAL/ENVIRONMENTAL HYGIENE & SAFETY

• OSHA compliance
• EPA asbestos and lead
• CIH, CHMM, and CSP reviews
• Occupational Medicine

…and more!
About Cincinnati

The livability, charm and diversity of this riverfront city and the pride of its 1.98 million inhabitants make it easy to understand why Cincinnati has been called "one of the best kept secrets in America." Love of the arts and a preoccupation with the sciences took root early and continue to flourish in this busy metropolis. Cincinnati is well known for its many fine restaurants, and for its cultural and educational assets which rival those of many larger cities.

Today few cities can match what Cincinnati has to offer musically: the Cincinnati Symphony Orchestra, the May Festival, the Cincinnati Opera and the Cincinnati Ballet Company. Cincinnati also boasts three fine art museums and a number of commercial galleries. The Playhouse in the Park, located atop Mt. Adams, provides excellent classical and innovative theater performances.

Cincinnati offers recreational facilities as well. The Ohio River is a playground for boaters. The city and surrounding Hamilton County have parks, woods and lakes aplenty. The Cincinnati Public Recreation Commission has 25 municipal tennis courts and seven golf courses. There are many private tennis and golf clubs and the city is the venue of several professional tournaments. The pride of Cincinnati sports fans is the city's two major league teams, the Reds and the Bengals. Other leisure-time assets are the Cincinnati Zoo, a world leader in breeding animals in captivity, and the Krohn Conservatory, which attracts visitors throughout the year to its display of exotic plants and flowers.

Cincinnati is also a major center of learning. The University of Cincinnati, of which the Academic Health Center is a part, dates back to 1819. One of the earliest municipal universities in the United States, it has been a full state university since 1977. It now boasts an enrollment of over 33,000 undergraduate and graduate students in its day, night, part-time and other programs. Other institutions of higher learning include the Hebrew Union College, the oldest Jewish theological school in America and Xavier University.

Register Early!

http://www.eh.uc.edu/hsce

or see the last page for a registration form.
Preface

The Occupational Safety and Health Act of 1970 was passed to help assure a safe and healthful workplace for all Americans. Providing education and professional training for people in the field of occupational safety and health is one of the major components of this ambitious national program. The National Institute for Occupational Safety and Health (NIOSH) has been instrumental in pursuing this goal. NIOSH has provided support for centers of training in occupational safety and health. These centers are designated as Education and Research Centers (ERC).

The University of Cincinnati is a proud member of the ERC community and offers the full complement of training programs and activities necessary to maintain ERC status. These programs are housed in the College of Medicine, Department of Environmental Health, the College of Nursing, and the Department of Mechanical and Industrial Engineering. The ERC provides graduate-level instruction and research training in the following areas: environmental and industrial hygiene, occupational safety and ergonomics, occupational health nursing, and environmental and occupational medicine. (Call 513-558-5704 for more information on graduate degree programs.)

In addition to graduate-level training, the ERC offers a series of continuing education courses drawing on the strength of our faculty and intended to meet the needs of occupational safety and health professionals currently working in the field. The University of Cincinnati is also a member of the Great Lakes OSHA Education Center which offers OSHA Training Institute courses. This catalog describes the Continuing Education Programs of the University of Cincinnati ERC and the regional OSHA education center. We are confident these offerings will be useful to those interested in the principles and practice of environmental and occupational safety and health.

Shuk-Mei Ho
Director, Department of Environmental Health

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University of Cincinnati
NIOSH Education and Research Center
Tiina Reponen, PhD, Center Director
Tiina Reponen, PhD
Environmental and Occupational Hygiene
L. Susan Davis, RN, PhD, Occupational Health Nursing
William G. Menrath
Continuing Education
Amit Bhatattacharya, Ph.D., CEP
NIOSH ERC
Andrew Freeman, MD, Environmental and Occupational Medicine
Jay Kim, PhD, Occupational Safety
Kermit Davis, PhD, Outreach

University of Cincinnati
Great Lakes Regional OTI Education Center
William G. Menrath, Director
Marianne Kautz, Program Manager

Occupational Health & Safety Continuing Education
Reading Campus, Bldg. A
University of Cincinnati, ML-0510
2180 E. Galbraith Road
Cincinnati, Ohio 45237-1625
800/207-9399
www.eh.uc.edu/hsce
## Environmental/Industrial Hygiene and Safety

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**OSHA Compliance Certificate Series!**

800/207-9399  
[www.eh.uc.edu/hsce](http://www.eh.uc.edu/hsce)
Partial List of Course Directors

C. Stuart Baxter, PhD, is associate professor in the Department of Environmental Health at the University of Cincinnati Medical Center. His research interests lie in the responses of skin to chemical carcinogens and inflammatory agents, and he teaches extensively on these topics at the graduate level. He has participated in continuing education courses for physicians and health professionals for more than 30 years.

Amit Bhattacharya, PhD, CPE, is professor of Environmental Health and Industrial Engineering at the University of Cincinnati. He has been working as an educator, researcher, and consultant in the area of ergonomics/biomechanics for over 30 years. Dr. Bhattacharya is the director of the Biomechanics-Ergonomics Research Laboratory and serves on the faculty of the Center of Biomedical Engineering.

G. Edward Burroughs, PhD, CIH, is an adjunct assistant professor of Environmental Health and Industrial Hygiene at the University of Cincinnati and a recent retiree from the National Institute for Occupational Safety & Health. He is certified in the comprehensive practice of industrial hygiene. As a commissioned officer at NIOSH he was presented several awards for meritorious service.

Jon Gans, PhD, is the Training and Safety Manager for Hytorc, the world’s largest manufacturer of precision industrial bolting tools. Jon has co-authored a number of training programs in bolting technology including the OTI course: “Bolting Safety: Principles and Practices.” He is the principal instructor for this course and for training and qualifying instructors from partner companies and schools. He earned his Doctorate at Cornell University in 2000.

Michael W. Hayslip, Esq., is a graduate of the University of Cincinnati’s Civil Engineering program and is a licensed attorney in the state of Ohio. Mr. Hayslip has more than 16 years of hands-on construction safety experience through his work with the Jones Group, Kokosing Construction, Baker Concrete Construction, Wilcon Corporation and Lithko Contracting, Inc.

Judy L. Jarrell, MA, EdD, has been with the University of Cincinnati for over 24 years. She was the Director of the Education and Research Center Continuing Education Program for 22.5 years. She was also the Program Director for the Great Lakes Regional OTI Education Center. Dr. Jarrell holds graduate degrees in communication and adult training.

Douglas H. Linz, MD, MS, completed medical school, internship and residency in Internal Medicine at the University of Michigan Medical Center. Dr. Linz was a faculty member of the Department of Environmental Health at the University of Cincinnati from 1987-1998, where he was a co-director of the Occupational Health Clinic and Director of the Occupational Medicine Residency Training Program and Occupational Medicine Training Course. Currently, Dr. Linz is the Medical Director of Corporate Health Services for TriHealth Corporate Health Services.

Mary Malotke has over 25 years of environmental engineering and management experience, both as environmental manager for Procter & Gamble and for the past 19 years as president of TENCON, Inc. Ms. Malotke is highly regarded as a trainer in the fields of environmental and occupational safety and health.

James D. McGlothlin, MPH, PhD, CPE, retired as a research occupational ergonomist/hygienist with the Engineering Control Technology Branch of the National Institute for Occupational Safety & Health to enter an academic career as professor of Health Sciences at Purdue University in 1999. Dr. McGlothlin has pioneered and received numerous national awards for the development of control programs to prevent musculoskeletal injuries in the workplace.

Roy T. McKay, PhD, has more than 25 years of experience with respiratory protection and pulmonary function testing at the University of Cincinnati. In addition to his faculty appointment, Dr. McKay is director of the Occupational Pulmonary program at the Center for Occupational Health. Dr. McKay has taught respiratory protection and pulmonary function testing worldwide, including Japan, Germany, England, Australia, Belgium, Mexico, China and many other locations. Dr. McKay has numerous prestigious committee appointments with responsibility for setting standards worldwide.

James R. Nisbet, President, Benchmark Aviation Marine, Consulting; has 35 years experience in maintenance and engineering, in both aviation and marine operations with human factors as a focus in environmental and OSHA safety. He has worked with the U.S. Coast Guard, American Airlines, Port Authorities, State Maritime initiatives, City Management, FAA Focus Groups and the Department of Labor Maritime Training. He is an alumnus of Lake Forest Graduate School of Management.

Timothy Roberts is the Founder and President of Safety Alliance LLC. He is responsible for OSHA training for his clients and clients of the University of Cincinnati. He is an adjunct professor for the College of Applied Science-Construction Safety Management at the University of Cincinnati. He is an authorized OSHA Outreach trainer, a trainer for the American Red Cross & Butler Tech College.

James D. Romine, MS, CIH, CHMM, CSP, directs the Hazardous Materials Management course by applying 25+ years of hazardous materials management experience. Mr. Romine uses lesson-learned techniques from his private-, government- and academic-sector employment to facilitate learning regulatory and administrative requirements. He is certified as an HMM at the masters level, and a CIH in the comprehensive aspect.

Larry W. Wilson, president of his own consulting firm, has 25 years of experience in the fields of safety and occupational health. Prior to forming his consulting firm, Mr. Wilson served as safety/security manager for a chemical plant and worked as an OSHA compliance officer. He has developed and taught safety and health courses for various companies and academic institutions.
Air Sampling for Toxic Substances

**Benefits**
This three-day course relies heavily on hands-on experiences. Trainees will be able to apply their training on air sampling methods immediately upon returning to their jobs.

**Who Should Attend**
Those who have responsibility for environmental compliance at their facilities, including safety officers, facilities operations staff, plant managers, supervisors, engineers, industrial hygienists, and others.

**Objectives:** At the end of this course the trainees should be able to:
- Determine common contaminants their employees are exposed to and at what levels.
- Demonstrate selected methods, equipment and strategies used for air sampling.

**Prerequisite**
Fundamentals of Industrial Hygiene or an equivalent overview course of industrial hygiene fundamentals. Contact program director, Dr. Judy Jarrell (800.207.9399) for details.

**Partial List of Course Topics**
- Area Sampling vs. Personal Sampling
- Grab Sampling & Integrated Sampling
- Laboratory Selection
- Sampling Equipment Methods
- Hands-on Workshops include: sampling pump calibration, combustible gas and oxygen meters, Niton X-Ray Fluorescence Meter, personal & clearance sampling for asbestos, pump maintenance and repair, hydrogen sulfide and carbon monoxide meters, statistical approaches to sampling, asbestos regulations and monitoring.

**Course Director:**
James D. Romine, MS, CIH, CHMM, CSP

<table>
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<th>September 9-11, 2013</th>
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<tr>
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Associate Safety Professional and Certified Safety Professional Comprehensive Reviews*

**Benefits**
Participants will receive a fast-paced review of the major topics covered in the ASP and CSP (Comprehensive Practice) examinations administered by the Board of Certified Safety Professionals. Question and answer format helps to prepare participants for types of problems encountered in the certification exam.

**Who Should Attend**
In addition to those professionals who are preparing for the certification exams given by the BCSP, this course will be valuable for industrial hygienists whose work assignments have expanded to include occupational safety.

Persons intending to take the ASP or CSP exams are advised to contact the BCSP at 217/359-9263 for application materials approximately 6-8 months prior to the exam.

**Partial List of Course Topics**
- Applied Engineering
- Review of Mathematics
- Human Physiology
- Dimensional Analysis
- Review of Chemistry
- Statistics and Probability
- System Safety
- Human Factors
- Safety Management
- Biohazards
- Mechanical Hazards
- Radiation
- Illumination
- Engineering Economy
- Training Techniques

**Course Director:**
James D. Romine, MS, CIH, CHMM, CSP

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<td>Credit Awarded:</td>
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*These 4-day courses run concurrently on the dates listed above.

CIH Examination Review for Industrial Hygiene Professionals

**Benefits**
This course is a review of the entire field of industrial hygiene in preparation for the ABIH certification examination. Emphasis is placed on the evaluation and control of occupational safety and health hazards. Key features of the program are the twice-daily quizzes which are used to evaluate preparedness to take the ABIH exam. We recommend the course be taken several months in advance of the exam.

"Wonderfully prepared and greatly helpful in my efforts to both pass the CIH exam and to continue improvement on my professional responsibilities. Having experts in their respective topics lecturing was a pleasure."

Participant – 8/2010

**Who Should Attend**
This course is designed specifically for those individuals who are preparing for the ABIH certification examination.

**Partial List of Course Topics**
- Standards, Regulations, Guidelines
- Sampling of Duts, Fumes, Mists, Gases and Vapors
- Analytical Techniques for IH Samples
- Radiation, Ionizing and Non-Ionizing
- Ventilation/Engineering Control
- Toxicology
- Noise and Vibration
- Air Pollution
- Heat Stress
- Ergonomics
- Personal Protective Equipment
- Problem Solving in All IH Areas
- Management

**Course Director:**
G. Edward Burroughs, PhD, CIH

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<tr>
<td>Tuition:</td>
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**Credit Awarded:**
4 CEUs

**BONUS:**
Dr. Jarrell presents “How to Study for Maximum Retention”
Hazardous Materials Management Certification Review

**Benefits**
Hazardous Materials Management Certification is an important credential for hazardous materials managers/engineers. This program will provide the hazardous materials professional with a review of the regulatory and administrative requirements as well as technical areas in preparation for the Certification Examination. The exam is offered by the Hazardous Materials Management. Please contact them to make arrangements to take exam.

**Who Should Attend**
Persons with responsibilities in hazardous materials management/engineering, who wish to pursue professional certification.

**Exam Application Information**
Applications for examination must be obtained from the Institute of Hazardous Materials Management, 11900 Parklawn Drive, Ste. 450, Rockville, MD 20852, 301/984-8969. Application must be made at least six weeks prior to the examination. Registration for the Review Course should be made directly with the University of Cincinnati, using the registration form in this catalogue.

**Partial List of Course Topics**
- Laws and Regulations
- Generator and Transporter Requirements
- Emergency Response
- Management of Hazardous Materials Programs
- Toxicology and Chemical Safety
- Industrial Hygiene
- Treatment and Disposal
- Air Pollution
- Underground Storage Tanks
- Polychlorinated Biphenyls
- Superfund
- Property Assessments

Course Director: James D. Romine, MS, CIH, CHMM, CSP

Course Dates: July 18-20, 2012
July 1-3, 2013

Class Size: 25 maximum

Tuition: $595
(exam fee additional- pay to Institute)

Credit Awarded: 1.8 CEUs

Introduction to Industrial Toxicology

**Benefits**
Modern basic concepts of toxicology will be presented with emphasis on the assessment of occupational risk from data derived from both epidemiologic and basic research studies. Strategies for monitoring exposure to workers also will be discussed. Special emphasis will be on currently prominent issues such as factors controlling prominent susceptibility, assessment of mutation and cancer risk, modern bio-monitoring methods, and extrapolation of data from animal to man. The presentations will use a practical, easy-to-understand approach. A manual will be provided to minimize note taking and will also serve as a valuable source of reference material.

Who Should Attend
Persons with responsibilities in hazardous materials management/engineering, who wish to pursue professional certification.

**Exam Application Information**
Applications for examination must be obtained from the Institute of Hazardous Materials Management, 11900 Parklawn Drive, Ste. 450, Rockville, MD 20852, 301/984-8969. Application must be made at least six weeks prior to the examination. Registration for the Review Course should be made directly with the University of Cincinnati, using the registration form in this catalogue.

**Partial List of Course Topics**
- Toxification of Selected Individual Tissues
- Pharmacokinetics and Risk Assessment
- Current Bioavailability Methods
- Carcinogenesis and Mutagenesis Testing Methods
- Current Bio-monitoring Techniques
- Biometrics
- Pharmacokinetics and Risk Assessment
- Toxic Responses of Selected Individual Tissues

Course Director: C. Stewart Baxter, Ph.D.

Course Dates: September 11-14, 2012
September 10-13, 2013

Class Size: 25 maximum

Tuition: $750

Credit Awarded: 2.4 CEUs

Industrial Hygiene Fundamentals

**Benefits**
Fundamentals of basic techniques involved in the recognition, evaluation, and control of potential health hazards in the workplace. This course is for those with minimal previous training in industrial hygiene. Use of material safety data sheets, Threshold Limit Value lists, NIOSH/OSHA publications and other sources to detect potential health hazards are described. Relevant Federal, state, and local legislation is reviewed. Methods of evaluation for the presence of physical hazards (noise, heat, radiation) and chemical hazards (dusts, fumes, gases, vapors) are covered. Industrial hygiene exposure situations will be covered. Sampling equipment use, direct-reading instruments, general principles of noise control, ventilation system design/evaluation, general toxicology and ergonomics will be included.

Who Should Attend
This course is designed for safety personnel, and persons newly assigned to industrial hygiene responsibility in a company or firm.

**Learning Objectives**
- Recognize potential workplace health hazards;
- Discuss the evaluation of potential workplace health hazards;
- Recognize the proper use of instruments which measure these hazards
- Describe the operations of control systems.

**Partial List of Topics**
- Government Regulations
- General Toxicology
- Ergonomics and Heat Stress
- Measurement of Dusts, Fumes, Fibers, Gases, Vapors
- Calibration and Use of Air Sampling Instruments
- Noise and Radiation Measurement
- Ventilation Measurement and Design
- Useful References in Industrial Hygiene
- Administration and Work Practice Controls
- Personal Protective Equipment, including Respirators

Course Director: G. Edward Burroughs, PhD, CIH

Course Dates: October 9-12, 2012
April 2-5, 2013
October 1-4, 2013

Class Size: 25 maximum

Tuition: $800
Credit Awarded: 2.4 CEUs
Principles of Ergonomics Applied to Work-Related Musculoskeletal and Nerve Disorders, OSHA #2250 (formerly "Occupational Ergonomics")

Partial List of Course Topics
- Job Analysis
- Ergonomic Aspects of VDT Stations
- Workplace/Tool Design
- Carpal Tunnel Syndrome and Other CTDs
- Anthropometry and Biomechanics
- Vibration White Finger Disease
- Predictive Computer Models
- Ergonomic Case Studies
- Rehabilitation of the Worker with Chronic Disability
- Functional Capacity Evaluation Relevant to
- Job Demands
- Developing and Managing an Ergonomics Program
- Practical Risk Assessment and Methods
- OSHA's Ergonomics Program
- Heat Stress
- Industrial Lighting

Laboratories
- Safe Lifting Technique and Lifting Strength Testing
- Evaluation of the VDT Workstation
- Use of Videography and an Ergonomic Checklist to Identify Upper Extremity Trauma
- Computer Models for Ergonomic Problem Solving
- Heat Stress Measurement

Course Director: Amit Bhattacharya, PhD, CPE

Course Dates: July 23-25, 2012
July 22-24, 2013

Tuition: $675

Credit Awarded: 2.1 CEUs
1.9 OSHA CEUs

Office Ergonomics

Course Objectives:
Trainees will gain an understanding of the principles and techniques for applying state-of-the-science ergonomic controls to office musculoskeletal disorders. Trainees will learn the seven steps of an ergonomics program approach to identify, analyze, solve, and prevent problems associated with office work environments. Finally, trainees will get hands-on training in how to recognize, evaluate, and modify real-world office work stations to reduce and prevent musculoskeletal disorders.

Partial List of Course Topics:
- Identifying the most common office-related musculoskeletal disorders
- Solving musculoskeletal disorders by using office ergonomics guidelines
- Symptoms
- Survey checklists
- NIOSH lifting evaluation
- 2-D and 3-D analysis of work postures and stressors
- Workstation organization and design.

FIELD EVALUATION & APPLICATIONS!!

Course Director: James D. McGlothlin, PhD, CPE

Course Dates: July 26-27, 2012
July 25-26, 2013

Tuition: $395

Credit Awarded: 1.4 CEUs;
Annual Pilot Research Project Symposium

This symposium disseminates the results of the pilot research projects and shows the diverse research interests among investigators, faculty and students in occupational health and safety areas. It is intended to foster the development of additional collaborative efforts and to illustrate the many opportunities for pursuing occupational health and safety research.

**Course Director:** Amit Bhattacharya, PhD, CPE

**Course Date:** October, 2012 TBA

**Tuition:** None – registration, however, is required

**Credit Awarded:** .6 CEU

Nursing hours will be approved for 2012.

No Charge!!
Barriers to Employability – explains the difference between disability and “ability” examinations and discusses five categories of barriers to re-employment.

The Cost of Disability – addresses the requirements for occupational physicians in regard to the cost of disability for workers. This topic is covered on the certification examination for occupational physicians. This module consists of a streaming video of the course instructor synchronized with his PowerPoint presentation.

Ethics In Occupational Medicine Practice – Two major causes of ethical conflict in occupational medicine practice are presented in this module. Numerous specific examples are given.

Periodic Medical Evaluations - an overview of the different basic types of periodic medical evaluations. The rationale for performing these examinations, content of typical examinations and issues dealing with writing reports and communicating results to patients and companies is discussed. The effect of the Americans with Disabilities Act on the performance of periodic medical examinations is reviewed.

Productive Aging: Managing the Health & Safety of An Aging Workforce – Parts I & II – These two modules are each approximately one-hour in length. Part I should be completed before Part II. The modules describe and dispel myths regarding older workers and outline strategies and issues to be considered by employers of older workers.

Respiratory Medical Clearance - contains a discussion of the physiologic stresses resulting from respirator use and an overview of recommendations for medical evaluation for respirator clearance.

Course Instructor: Douglas H. Linz, MD, MS, completed medical school, internship and residency in Internal Medicine at the University of Michigan Medical Center. Dr. Linz was a faculty member of the Department of Environmental Health at the University of Cincinnati from 1987-1998, where he was a co-director of the Occupational Health Clinic and Director of the Occupational Medicine Residency Training Program and Occupational Medicine Training Course. Currently, Dr. Linz is the medical director of Corporate Health Services for TriHealth Corporate Health Services.

Tuition: $30 per module
Credit Awarded: TBA

Also: (no fee for these lectures)
D.A. Henderson, MD:
“The Death and Resurrection of a Virus” and
“New Infectious Disease Challenges for the 21st Century
R.A. Hatchett, MD:
“Community Planning for Pandemic Influenza”
Overview of Respiratory Protection

This course provides a practical overview of respirators and respirator program requirements, and is designed primarily for students with little/no prior formal training. Although supplied air and self-contained (SCBA) respirators will be discussed, the emphasis of this course will be on air-purifying half- and full-face respirators.

Partial List of Course Topics
- use, selection and care of respirators
- respirator program requirements
- regulations (OSHA, NIOSH, ANSI)
- filters and cartridge for APRs
- problem solving, common pitfalls
- requirements for medical clearance
- fit test requirements

Course Director:  Roy T. McKay, PhD
Course Dates:  September 18, 2012
November 5, 2013

Tuition:  $230 *
Credit Awarded:  .7 CEUs

NIOSH-Approved Spirometry

This NIOSH-approved spirometry training course (approval #010) deals with all aspects of spirometry testing, and uses a combination of lectures and hands-on practice. At the end of this 3-day course the participant will be able to use the proper technique to obtain test results meeting American Thoracic Society (ATS) requirements. The students will be able to calculate specific test results and to understand their meaning.

Partial List of Course Topics
- Rationale for Spirometry Testing in the Workplace
- Measurement and Calculation of FVC, FEV1, FEV1/FVC ratio
- Technique for Performing Spirometry
- Hands-on Spirometry Testing
- Interpretation of Test Results
- Instruments Standards and Requirements

Course Director:  Roy T. McKay, Ph.D.
Course Dates:  July 17-19, 2012
October 2-4, 2012
December 4-6, 2012
March 26-28, 2013
June 25-27, 2013
October 8-10, 2013
December 3-5, 2013

Tuition:  $595
Credit Awarded:  2.3 CEUs
23.1 Nursing Contact hours

Spirometry for Physicians

This one-day course provides guidelines for interpretation of pulmonary function test results. At the end of this one-day course the physician will be able to incorporate the recent changes in spirometry standards and guidelines by the American Thoracic Society to help the physician understand correct interpretation techniques, to use new and better methods to identify significant changers in lung function; and to identify persons with true lung disease versus test variability.

Partial List of Course Topics
- Definitions and Significance of FVC, FEV1, FEF25-75%, Peak Flow, FEF25%, etc
- How to review tracings for test quality
- Recent Changes in ATS Standards and other Guidelines

Course Date:  TBD
Tuition:  $330
Credit Awarded:  .7 CEUs

Respirator Fit Testing Workshop

This two-day workshop provides detailed information and "hands-on" experience for conducting qualitative and quantitative respirator fit testing. At the end of this two-day workshop the student will be able to conduct respirator fit testing including qualitative and quantitative methods to satisfy regulatory requirements.

Partial List of Course Topics
- How to inspect respirators prior to fit testing.
- Mask donning, fitting tips, user seal checks
- Saccharin Sweetener and Bitrex Qualitative fit test procedures and demonstrations
- Quantitative fit testing with the TSI PortaCount & Fit Tester 3000
- Interpretation of Test Results

Course Director:  Roy T. McKay, PhD
Course Dates:  September 19-20, 2012
April 17-18, 2013

Tuition:  $410 *
Credit Awarded:  1.4 CEUs

*Take this course with "Overview of Respiratory Protection" for $360.

Respirator Selection and Change-out Schedule Workshop

This 2-day workshop will provide guidance on respirator selection and the development of OSHA-compliant change-out schedules for cartridges and filters. At the end of this 2-day workshop the student will be able to select a respirator based on workplace conditions (exposure level, type of contaminant, etc.). This comprehensive course will train students on twelve different methods for determination of cartridge change out schedules, including three methods for handling mixtures.

Partial List of Course Topics
- OSHA guidelines for respirator selection
- Respirator selection tricks of the trade
- Filter selection issues.
- Calculating MUC’s for mixtures
- Practical problems and solutions
- Models for change out schedules

Course Director:  Roy T. McKay, Ph.D.
Course Date:  April 24-25, 2013
Tuition:  $430
Credit Awarded:  1.1 CEUS

Spirometry Refresher (NIOSH-approved)

This one-day NIOSH-approved refresher course will review recent changes in spirometry standards and guidelines published by the American Thoracic Society (ATS) and European Respiratory Society (ERS). As of January 2009, technicians must now complete an approved Refresher course every 5 years to keep their NIOSH-Approved Spirometry course certificate active. This program will provide additional insight towards the understanding, significance, and interpretation of lung function tests. Students will also gain a better understanding of sub-maximal effort, invalid maneuvers, and other factors that affect interpretation of the test. Examples of poorly conducted tests will be used to provide insight towards improving coaching technique.

Course Dates:  December 11, 2012Tampa, FL
September 18, 2013

Tuition:  $310
Credit Awarded:  .7 CEUs
7 Nursing Contact hours

To Register for Dr. McKay’s courses go to: www.DrMcKay.com

11
Interpretation of Spirometry: Beyond the Numbers

Previously known as “Spirometry for Physicians,” this one-day course is ideal for all health professionals who desire a comprehensive course designed specifically to address practical interpretation of spirometry tests. Interpretative strategies will be consistent with standards published by the American Thoracic Society (ATS) and European Respiratory Society (ERS) and will include a review of current standards. Practice problems will be used to help the student recognize acceptable from unacceptable trials and when unacceptable maneuvers still have usable information. Examples of poorly administered and improperly performed tests will be presented to help students recognize poor subject effort, unacceptable maneuvers, limitations of equipment, and other factors that alter the interpretation algorithm. Students will also learn how to recognize the magnitude and direction of error introduced when less than ideal results are obtained. Guidelines regarding the use and selection of predicted values, and race adjustments will be presented.

A variety of methods will be presented to identify potentially significant changes in lung function. This information is very helpful in regard to identifying persons with true lung disease versus variability in the test. The course is a "must" for persons who need comprehensive training to properly interpret spirometry tests. At the conclusion of this course, students will be able to recognize acceptable spirometry maneuvers and be able to interpret test results while decreasing the false positive and false negative rate of obstructive and restrictive lung disease.

Course Dates: December 12, 2012
Tuition: $330
Credit Awarded: .7 CEUs
6.3 Nursing Hours:

Continuing education contact hours for nurses are approved by the Ohio Board of Nursing through the OBN Approver Unit at the University of Cincinnati College of Nursing, Continuing Education Program, (OBN-011-93). Contact hours are valid in most states. Program # 111013-1
LEAD ABATEMENT COURSES

LEAD ABATEMENT TRAINING FOR SUPERVISORS/CONTRACTORS

This training is designed for those persons with responsibilities for designing, planning, or conducting lead-based paint, soil and/or dust abatement in the residential setting. Course instructors are on the forefront of the development and implementation of lead abatement programs in the United States.

Who Should Attend
Individuals interested in becoming licensed lead abatement supervisors or contractors.

Partial List of Course Topics
- Health Effects of Lead Exposure
- Medical Surveillance
- XRF Lead-in-Paint Analyzers
- Governmental Regulations
- Project Management
- Respiratory Protection
- Environmental Sampling
- Lead Abatement Techniques
- Clearance Criteria
- Waste Disposal
- Cost Estimation
- Legal & Insurance Issues

Course Director: William Menrath, MS
Course Dates: September 10-14, 2012
February 4-8, 2013
August 26-30, 2013
Class Size: 30 maximum
Tuition: $795
Credit Awarded: 3.5 CEUs

Tuition includes exam.

Lead abatement courses are approved by Ohio and Indiana, Departments of Health.

LEAD INSPECTOR TRAINING

Objectives
At the conclusion of this course the individuals will be able to:
- Inspect for lead-based paint in the residential setting and other sources of lead, such as water, soil, and dust.
- Describe the performance and limitations of all lead testing techniques and the methods used in their implementation.

This course also provides information on sample collection techniques in different media. The focus in each of these areas is on the role of the inspector and what the inspector needs to know about the topic being discussed.

Who Should Attend
Individuals engaged in inspection of facilities for sources of lead contamination, such as lead-based paint, water, soil and dust.

Partial List of Course Topics
- History of Lead Use
- Sources of Environmental Lead Contamination
- Regulatory Background
- Health Effects
- Theory and Use of SRF Analyzers
- Testing Operations and Sampling Plans

Course Director: William Menrath, MS
Course Dates: October 8-10, 2012
September 16-18, 2013
Class Size: 30 maximum
Tuition: $295
Credit Awarded: 1.4 CEUs

Tuition includes exam.

LEAD EXPOSURE RISK ASSESSMENT

Objectives
At the conclusion of this course the trainees will be able to:
- conduct risk assessment activities in public housing and large apartment complexes utilizing the HUD protocol.
- Recommend abatement and/or in-place maintenance response actions.

Prerequisite
Completion of Lead Inspector Training is a prerequisite for attending this course.

Partial List of Course Topics
- HUD's Guidelines and Risk Assessment Protocol
- Developing in-place Management Programs
- Risk Assessment Report Forms
- Recommendations for Control of Hazards

Course Director: William Menrath, MS
Course Dates: October 11-12, 2012
September 19-20, 2013
Class Size: 30 maximum
Tuition: $295
Credit Awarded: 1.4 CEUs

Tuition includes exam.

CLEARANCE TECHNICIAN TRAINING

This one-day course will provide trainees with the training required to take an Ohio State Clearance Technician licensing exam. Upon passing the state exam, the trainee becomes licensed in the State of Ohio as a Clearance Technician. This license must be renewed every 2 years and a 2.5 Refresher Course must be taken every 4 years. This course provides trainees with the skills to provide lead dust clearance sampling for non-abatement lead work. This includes visual inspection, the sampling, interpreting results and report writing. There is an exam at the end of the course.

Course Dates: Call if you are interested
Tuition: $100
LEAD ABATEMENT REFRESHER COURSES

This training is required bi-annually to extend Ohio licensing for Lead Abatement Inspectors, Assessors, and Contractors. Ask us about other states.

Please include a copy of your original course certificate and any refresher course certificates with your registration. We must have these to process your registration.

Lead Supervisor Refresher Course
Course Dates: August 20, 2012
December 20, 2012
February 10, 2013
August 9, 2013
December 17, 2013

Class Size: 20 maximum
Tuition: $195
Credit Awarded: .7 CEU

Lead Risk Assessor Refresher Course
Course Dates: August 21, 2012
December 19, 2012
February 11, 2013
August 8, 2013
December 16, 2013

Class Size: 20 maximum
Tuition: $195
Credit Awarded: .7 CEU

Tuition includes exam.

LEAD SAFETY FOR RENOVATION, REPAIR, AND PAINTING (RRP) INITIAL COURSE

EPA’s Renovation, Repair and Painting Final Rule (40 CFR 745) requires that renovations conducted for compensation, must be performed by Certified Firms using Certified Renovators. Renovation firms that wish to work in pre-1978 homes and child-occupied facilities must apply to EPA and pay a fee in order to become certified. Renovators seeking to become Certified Renovators must successfully complete an EPA-accredited renovator course or a course accredited by an EPA authorized State or Tribe. This course is the EPA model course for Certified Renovators and as such meets all requirements in 40 CFR 745.90.

This course will teach you how to comply with the EPA Renovation, Repair and Painting Rule and the HUD Lead Safe Housing Rule, and how to perform lead-safe work practices safely and effectively.

Once you have successfully completed this Certified Renovator Initial Course, delivered by an EPA-accredited training provider, you will be an EPA Certified Renovator. EPA Certified Renovator status will allow you to do lead safe renovation, repair, and painting work in pre-1978 housing and in child-occupied facilities where work will disturb lead-based paint. Your certification is valid for five years from the date of completion of the course. To renew certification after five years, you must successfully complete another EPA-accredited Certified Renovator Refresher Course before your initial certification expires. Refresher training must be taken every five years to maintain certification. If the certified renovator training is not refreshed within five years of the previous training, you must retake the initial course to become certified again.

Course Director: William g. Menrath, MS
Tuition: $195

Course Dates:
January 17, 2013
February 26, 2013
March 18, 2013
April 29, 2013
May 23, 2013
June 17, 2013
July 22, 2013
August 12, 2013
September 23, 2013
October 28, 2013
November 25, 2013
December 9, 2013

RRP REFRESHER COURSE

If you have already completed a HUD- or State-Approved Lead Safety for Renovation, Repair, and Painting Initial Course, you only need to complete this refresher course to become U.S. EPA-certified.

Course Director: William Menrath, MS
Tuition: $95

Course Dates:
January 18, 2013
February 25, 2013
March 19, 2013
April 30, 2013
May 24, 2013
June 18, 2013
July 23, 2013
August 13, 2013
September 24, 2013
October 29, 2013
November 26, 2013
December 10, 2013
ESSENTIALS FOR HEALTHY HOUSING PRACTITIONERS COURSE

This course was developed by HUD and the CDC&P for people who go into homes for delivery of health services, inspections or environmental work. The training was developed to help these individuals understand the connection between health and housing and how to take a holistic approach to identify problems that threaten the health and well-being of residents.

Everyone from a public health nurse visiting a client to an environmental health professional doing a rodent inspection will gain insight into how housing and health are related and actions they can take to improve the health of their clients. The two-day course brings together professionals with a variety of perspectives and experiences in a series of exercises, which keep the training lively and engaging.

The training complements hazard-specific training in lead-based paint, radon, mold, pests, and asbestos by identifying root causes of health problems in a home and linking them to seven principles of healthy housing: keep it dry; keep it clean; keep it pest-free; keep it ventilated; keep it safe, avoid contaminants; and maintain the house.

Course participants will learn how enhanced design, renovation and maintenance activities will help keep a home healthy.

For dates and more information about the above-described course, contact: William Menrath, MS 513/558-0309 or william.menrath@uc.edu
**GREAT LAKES REGIONAL OSHA EDUCATION CENTER - University of Cincinnati**

**Location Codes:**
- ACI = Allied Construction Industry - Cincinnati, OH
- CIN = University of Cincinnati - Cincinnati, OH
- ICDWUC = University of Cincinnati - Cincinnati, OH
- SCNW = Safety Council of NW Ohio, Toledo, OH
- BX = Builders Exchange, Columbus, OH
- SSP = Shawnee State, Portsmouth, OH

*Note: Course directors and locations are for CIN (Cincinnati) unless otherwise noted.*

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### Collateral Duty Course for Other Federal Agencies, OSHA 6000

This course introduces Federal agency collateral duty (part-time) safety and health personnel to the OSHA Act, Executive Order 12196, 29 CFR part 1960, and 29 CFR part 1910. It enables them to recognize basic safety and health hazards in their own workplaces, and to effectively assist agency safety and health officers with inspection and abatement efforts. A mock workplace inspection is conducted and student findings are reviewed.

**Partial List of Course Topics**
- Hazard Communication
- Accident Investigation
- OSH Act & standards
- Walking & Working Surfaces/
  - Means of Egress and Fire Protection
- Hazardous Materials
- Personal Protective Equipment
- Material Handling

**Course Director:** Mary Malotke

**Course Dates:**
- January 22-25, 2013
- April 16-19, 2013
- June 4-7, 2013
- September 3-6, 2013
- November 19-22, 2013

**Tuition:** $850

**Credit Awarded:** 2.5 OSHA CEUs

### Disaster Site Worker Course, OSHA 7600

This 16-hour course is for skilled construction trade workers at natural and man-made disaster sites. It is designed to develop an awareness of incident command systems and special safety and health hazards, including CBRNE hazards that may be present at such sites. Participants in this course will each complete a performance test demonstrating the ability to inspect, don, and doff a negative-pressure air-purifying respirator.

**Prerequisite:** OSHA 10-hour construction or general industry outreach course: The 30-hour Construction or General Industry outreach training course is an acceptable substitute.

**Partial List of Course Topics**
- Incident Command System/Unified Command System
- Safety Hazards
- CBRNE Agents
- Traumatic Incident Stress Awareness
- Respiratory Protection
- Other Personal Protective Equipment
- Decontamination

**Course Director:** TBN

**Course Dates:** TBD

**Class Size:** 20 maximum

**Tuition:** $550

**Credit Awarded:** 2.8 CEUs

### Disaster Site Worker Train-The-Trainer Course, OSHA 5600

This 24-hour course is for skilled construction trade workers who wish to be authorized to teach the Disaster Site Worker Course, OSHA 7600. **Prerequisite:** Must be currently authorized OSHA Construction or General Industry Outreach Trainer.

**Partial List of Course Topics**
- Terrorism in Perspective
- Crime Scene and Secondary Devices
- Personal Protective Equipment
- BBP Issues
- Incident & Unified Command
- OSHA eTool
- Radiological Issues
- Safe Work Practices & Hazard Recognition
- Military Agents
- Industrial Chemicals
- Biological Agents
- Decontamination
- Traumatic Stress
- Other Responders
- Trainer Skills

**Director:** Larry Wilson

**Course Dates:** TBD

**Class Size:** 20 maximum

**Tuition:** $800

**Credit Awarded:** 2.4 OSHA CEUs

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*All OSHA Courses meet BCSP criteria for continuation of certification credit.*

*Check abih.org for information regarding ABIH CM point procedures.*
Electrical Standards, OSHA 3095

This course is designed to provide the trainee with an overview of electrical installations and equipment. Emphasis is placed on controlling electrical hazards by the application of OSHA standards and the National Electrical Code. Topics include grounding requirements and overcurrent protection for both portable and fixed equipment.

Learning objectives

Trainees who successfully complete this course should be able to:

• Recognize the hazards of electricity
• Apply fundamentals of electricity
• Explain electrical equipment functionality
• Assess electrical safety related work practice [ESRWP] conditions
• Apply OSHA and consensus electrical standards
• Recognize elements of power elements of power generation, transmission and distribution.

Course Director: Larry W. Wilson
Course Dates: May 6-9, 2013
Class Size: 20 maximum
Tuition: $800
Credit Awarded: 2.6 OSHA CEUs

Excavation, Trenching and Soil Mechanics, OSHA 3010

This course focuses on OSHA standards and the safety aspects of excavation and training. Trainees are introduced to practical soil mechanics and its relationship to the stability of shored and un-shored slopes and walls of excavations. Various types of shoring (wood timbers and hydraulic) are covered. Testing methods are demonstrated and a half-day field exercise is conducted allowing students to use penetrometers, torvane shears and engineering rods.

Learning objectives

Trainees who successfully complete this course should be able to:

• Identify general excavation hazards
• Identify types of protective systems used at excavation sites as described in standard
• Identify types of acceptable soil testing methods used to classify rock and soil deposits
• Identify sloping system design requirements
• Identify support and shield systems
• Apply principles of soil mechanics regarding factors affecting soil stability

Personal Protective Equipment Needed!

Safety shoes, safety glasses and appropriate clothing for field exercise must be worn.

Course Director: Michael W. Hayslip, Esq.
Course Dates: November 19-21, 2012
March 26-28, 2013
June 18-20, 2013
November 13-15, 2013
Class Size: 20 maximum
Tuition: $725
Credit Awarded: 2.0 OSHA CEUs

Fall Arrest Systems, OSHA 3110

This course provides an overview of state-of-the-art technology for fall protection and current OSHA requirements.

Partial List of Course Topics

• Principles of fall protection
• Components of fall arrest systems
• Limitations of fall arrest equipment
• OSHA policies regarding fall protection

This course features a one-day field exercise demonstrating fall protection equipment.

Course Objectives

At the completion of this course, the participants should be able to:

• Identify employer’s responsibility of providing fall protection
• Identify conventional methods of fall protection;
• Identify fall arrest requirements;
• Identify lifelines in a fall arrest system;
• Identify non-conventional solutions for fall systems
• Identify training requirements;
• Assess compliance with subparts of 29CFR1926 relating to fall protection
• Evaluate compliance of installed passive systems and design according to OSHA requirements;
• Assess compliance of fall arrest systems and design according to OSHA and consensus standard requirements;
• Evaluate compliance of non-residential roof construction with OSHA and consensus standards.

Personal Protective Equipment Needed!

Safety shoes, safety glasses and appropriate clothing for field exercise.

Course Director: Larry W. Wilson
Course Dates: May 29-31, 2013
Class Size: 20 maximum
Tuition: $725
Credit Awarded: 1.8 OSHA CEU
Hazardous Materials, OSHA 2015

This course covers OSHA general industry standards and integrates materials from other consensus and proprietary standards that relate to hazardous materials.

Course Objectives
At the completion of this course, the participants will be able to:
- Assess compliance with the sections of OSHA standard 29CFR1910 Subparts H and S regarding hazardous (classified) locations;
- Assess compliance with OSHA standard 29CFR1910.106 regarding flammable and combustible liquids;
- Assess compliance with OSHA requirements related to compressed gases, acetylene, and nitrous oxide;
- Assess compliance with OSHA requirements related to cryogenics and refrigerated liquids;
- Assess compliance OSHA standard 29CFR1910.107 and the general duty clause, related to spray finishing;
- Assess compliance with OSHA standard 29CFR1910.122-126 regarding dipping and coating operations;
- Assess compliance with OSHA standard 29CFR1910.111 regarding storage and handling of anhydrous ammonia;

Partial List of Course Topics
- Hazardous Locations
- HazWoper
- Compressed Gases
- Welding
- Liquefied Petroleum Gases and Flammable Liquids
- Spray Finishing
- Dip Tanks
- Cryogenics
- Process Safety Management

Course Director: James D. Romine, MS, CIH, CHMM, CSP
Course Dates: October 9-12, 2012
October 7-10, 2013
Class Size: 20 maximum
Tuition: $800
Credit Awarded: 2.6 OSHA CEUs

Machinery and Machine Guarding Standards, OSHA 2045

Benefits
This course provides the student with an overview of various types of common machinery and related safety standards. The course provides guidance in recognizing hazards such as those created by points of operation, ingoing nip points, rotating parts, and flying chips or sparks, and provides some options to achieve abatement. A field trip is provided to enhance students' knowledge of machine guarding standards.

Course Objectives
Students completing this course should be able to identify possible violations of:
- Hazardous energy (lockout/tagout);
- Machine guarding;
- Woodworking machinery hazards;
- Abrasive wheel machinery hazards;
- Mechanical power press hazards;
- Mechanical power transmission apparatus;
- Portable powered tools/equipment, and some special industries of mills and calendars in rubber and plastics industry, and forging, pulp and paper, and bakery industries.

Partial List of Course Topics
- Machinery and Machine Guarding Concepts
- Control of Hazardous Energy Sources
- Portable Power Tools
- Robotic Safeguarding
- Woodworking Machinery Requirements
- Abrasive Wheel Machinery
- Mills and Calendars
- Mechanical Power Presses
- Forging Machines

Course Director: Larry W. Wilson
Course Dates: Future dates to be determined
Class Size: 20 maximum
Tuition: $800
Credit Awarded: 2.6 OSHA CEUs

OSHA Guide to Industrial Hygiene, OSHA 521

Benefits
This course is designed for those who are interested in increasing their knowledge of industrial hygiene practices and related OSHA regulations and procedures. Workshops are featured.

Who Should Attend
Industrial hygienists, safety engineers, occupational health nurses, other safety personnel.

Course Objectives
Students completing this course should be able to:
- Module 1 – Recognize air contaminants
- Module 2 – Evaluate potential air contaminants
- Module 4 - Describe methods to control health hazards

Partial List of Course Topics
- Air Contaminant Sampling
- Air Contaminant Standards
- Hazard Communication
- Hazardous Waste Standards
- Asbestos Standard
- Blood-borne Disease Standard
- Confined Space Standard
- Noise Standard
- Respirator Standard
- Ventilation Standards
- Detector Tube Sampling Workshops
- Elements of a Workplace Health Program and Safety/Health Program
- Hazard Violation
- Health Hazards Recognition

Course Director: James D. Romine, MS, CIH, CHMM, CSP
Course Dates: February 4-7, 2013
Class Size: 20 maximum
Tuition: $800
Credit Awarded: 2.6 OSHA CEUs

All OSHA courses meet BCSP criteria for continuation of certification credit.
Occupational Safety and Health Standards for the Construction Industry, OSHA 510

This course for private sector personnel covers OSHA policies, procedures, and standards, as well as construction safety and health principles. Topics include scope and application of the OSHA construction standards. Special emphasis is placed on those areas that are the most hazardous, using OSHA standards as a guide.

Course Objectives:
Students completing this course should be able to:
• Recognize various construction processes, materials, and equipment;
• Identify the most common hazards with construction industry workplace and Associate them with the applicable OSHA standards and consensus standards; and
• Recommend feasible abatement methods for these hazards and violations of these standards.

Partial List of Course Topics
• Why Safety?
• Overview of OSHA and OSHA standards
• Inspections, Citations, and Penalties
• Multi-Employer Workplaces
• Safety and Health Management Systems
• Recordkeeping
• General Physical Safety Hazards
• Structural Safety Hazards
• Mechanical Safety Hazards
• Health Hazards

Course Director: Larry W. Wilson
Course Dates: July 17-20, 2012
                        Aug. 28-31, 2012
                        October 9-12, 2012
                        January 15-18, 2013
                        March 5-8, 2013
                        May 14-17, 2013
                        July 9-12, 2013
                        October 8-11, 2013

Class Size: 15 maximum
Tuition: $800
Credit Awarded: 2.5 OSHA CEUs

Occupational Safety and Health Standards for the General Industry, OSHA 511

This course for private sector personnel covers OSHA policies, procedures and standards, as well as general industry safety and health principles. Topics include scope and application of the OSHA general industry standards. Special emphasis is placed on those areas that are the most hazardous, using OSHA standards as a guide.

Course Objectives:
Students completing this course will be able to:
• Identify the common hazards associated with general industry workplaces
• Locate applicable OSHA standards and requirements in 29 CFR 1910
• Recommend abatement methods for these hazards and violations of these standards.

Partial List of Course Topics
• Why Safety?
• Overview of OSHA Standards and the Act
• Inspections, Citations, and Penalties
• Record Keeping
• Safety and Health Management Systems
• Multi-Employer Workplaces
• Walking and Working Surfaces
• Egress and Evacuation
• Fire Protection
• Machinery and Machine Guarding
• Personal Protective Equipment
• Hazardous Materials
• Blood-borne Pathogens
• Hazard Communication
• Materials Handling and Storage
• Permit-Required Confined Space Entry
• Introduction to Industrial Hygiene
• Occupational Health & Environmental Controls
• Electrical Standards & Lock-out/Tag-out
• Welding
• Hand and Portable Power Tools

Course Director: Mary Malotke
Course Dates: July 24-27, 2012
                August 7-10, 2012
                October 16-19, 2012
                January 8-11, 2013
                March 12-15, 2013
                May 20-23, 2013
                July 16-19, 2013
                August 6-9, 2013
                October 15-18, 2013

Class Size: 15 maximum
Tuition: $800
Credit Awarded: 2.5 OSHA CEUs

Permit-Required Confined Space Entry, OSHA 2264

This course is designed to increase trainees’ knowledge of hazards associated with confined space entry and their environment. Trainees who successfully complete this course should be able to:
• Define terms specific to permit-required confined space entry
• Identify current standards governing permit-required space entry procedures
• Demonstrate the proper operation of certain testing instruments and explain their limitations
• Describe appropriate ventilation, personal protective equipment, and emergency procedures that are necessary for entry into permit spaces.

Partial List of Course Topics
• Permit space hazards
• Entry procedures
• Ventilation requirements
• Personal Protective Equipment
• Permit System

Course Director: Larry W. Wilson
Course Dates: March 4-6, 2013
Class Size: 15 maximum
Tuition: $725
Credit Awarded: 1.9 OSHA CEUs

Note: Some math ability is required. Trainees will need a calculator with log functions.

Principles of Ergonomics Applied to Work-Related Musculoskeletal and Nerve Disorders, OSHA 2250

This course introduces the student to the application of ergonomic principles to prevent musculoskeletal disorders. Topics include work physiology, anthropometry, musculoskeletal disorders, video display terminals, and risk factors such as vibration, temperature, material handling, repetition, and lifting and transfers in health care. Course features industrial case studies covering analysis and design of work stations and equipment, laboratory sessions in manual lifting, and coverage of current OSHA compliance policies.

Course Director: Amit Bhattacharya, PhD, CPE
Course Dates: July 23-25, 2012
                July 22-24, 2013
Class Size: 15 maximum
Tuition: $725
Credit Awarded: 1.9 OSHA CEUs
Respiratory Protection, OSHA 2225
This course covers the requirements for the establishment, maintenance, and monitoring of a respirator program.

Partial List of Course Topics
- Terminology
- OSHA and ANSI standards
- NIOSH Certifications
- Medical evaluation recommendations
- Workshops (an integral part of the course)

Course Director: Larry L. Wilson
Course Dates: May 20-22, 2013
Class Size: 15 maximum
Tuition: $675
Credit Awarded: 2.5 OSHA CEUs

Trainer Course for the Construction Industry Standard, OSHA 500
This course is designed for personnel in the private sector interested in teaching the 10- and 30-hour construction safety and health outreach program to their employees and other interested groups. Special emphasis is placed on those topics that are required in the 10- and 30-hour programs as well as on those that are most hazardous, using OSHA standards as a guide. Course participants are briefed on effective instructional approaches and the effective use of visual aids and handouts. This authorizes the student to become a trainer in the OSHA Outreach Training Program and to conduct both 10- and 30-hour construction safety and health courses and to issue student cards to participants after verifying course completion. Prerequisite: OSHA 510, and 5 years of construction industry safety experience. A college degree in occupational safety and health, a Certified Safety Professional (CSP) or a Certified Industrial Hygienist (CIH) designation, in the applicable training area may be substituted for two (2) years of safety work experience.

NOTE: Students in the OSHA 500 Course who wish to participate as authorized trainers in the OSHA Outreach Training Program must prepare a presentation on an assigned OSHA Construction Outreach topic individually or as part of a group and successfully pass a written exam at the end of the course.

Course Objectives
Upon the successful completion of this course, the participants will be able to apply adult learning principles and training techniques to clearly identify, define, and explain construction industry hazards and acceptable corrective measures in accordance with the 29CFR 1926 Construction Industry Standard as they teach 10- and 30-hour Construction Industry Courses.

Partial List of Course Topics:

Course Chair: Larry L. Wilson
Course Dates: June 25-28, 2012
August 13-16, 2012
September 17-20, 2012
November 13-16, 2012
February 12-15, 2013
March 26-29, 2013
June 24-27, 2013
August 20-23, 2013
September 16-19, 2013
November 12-15, 2013

Class Size: 15 maximum
Tuition: $800
Credit Awarded: 2.6 OSHA CEUs

Update for Construction Industry Outreach Trainers, OSHA 502
This course is designed for personnel in the private sector who have completed the OSHA 500 instructor course in Occupational Safety and Health Standards for the Construction Industry and who are authorized trainers in the OSHA Outreach Training Program. It provides an update on such topics as OSHA construction standards, policies, and regulations.
Trainees who successfully complete this course should be able to:
- Describe the most current process, requirements, recommendations, and resources for the OSHA Outreach Trainer Program;
- Discuss updates in OSHA’s Construction Industry Standards and policy since 2008;
- Explain best practices for construction industry occupational safety & health;
- Demonstrate ability to effectively deliver OSHA construction industry training as well as critique other trainers; and
- Conduct themselves in an ethical manner, respecting their roles as Authorized OSHA Outreach Trainers.

Course Dates: June 6-8, 2012
August 6-8, 2012
October 22-24, 2012
December 5-7, 2012
February 6-8, 2013
April 16-18, 2013
July 31-Aug. 2, 2013
October 21-23, 2013
December 11-13, 2013

Course Director: Larry W. Wilson
Tuition: $600
Credit Awarded: 1.9 OSHA CEUs
Class Size: 15
Trainer Course for the General Industry Standard, OSHA 501
This course is designed for personnel in the private sector interested in teaching the 10- and 30-hour general industry safety and health outreach program to their employees and other interested groups. Special emphasis is placed on those topics that are required in the 10- and 30-hour programs as well as on those that are most hazardous, using OSHA standards as a guide. Course participant are briefed on effective instructional approaches and the effective use of visual aids and handouts. This authorizes the student to become a trainer in the OSHA Outreach Training Program and to conduct both 10- and 30-hour general industry safety and health courses and to issue student cards to participants after verifying course completion. **Prerequisite:** OSHA 511, and 5 years of general industry safety experience. A college degree in occupational safety and health, a Certified Safety Professional (CSP) or a Certified Industrial Hygienist (CIH) designation, in the applicable training area may be substituted for two (2) years of safety work experience.

**NOTE:** Students in the OSHA 501 Course who wish to participate as authorized trainers in the OSHA Outreach Training Program must prepare and teach back a presentation on an assigned OSHA General Industry Outreach topic individually or as part of a group and successfully pass a written exam at the end of the course.

**Course Objectives**
Upon the successful completion of this course, the participants will be able to apply adult learning principles and training techniques to clearly identify, define, and explain general industry hazards and acceptable corrective measures in accordance with the 29CFR 1910 General Industry Regulations as they teach 10- and 30-hour General Industry Courses.

**Course Director:** Mary Malotke

**Course Dates:**
- June 26-29, 2012
- August 14-17, 2012
- September 24-27, 2012
- October 30-November 2, 2012
- February 19-22, 2013
- April 23-26, 2013
- June 25-28, 2013
- August 27-30, 2013
- September 24-27, 2013
- November 5-8, 2013

**Class Size:** 15 maximum

**Tuition:** $800

**Credit Awarded:** 2.6 OSHA CEUs

Update for General Industry Outreach Trainers, OSHA 503
This course is designed for personnel in the private sector who have completed the OSHA 501 instructor course in Occupational Safety and Health Standards for the General Industry and who are authorized trainers in the OSHA Outreach Training Program. It provides an update on such topics as OSHA general industry standards, policies, and regulations.

Trainees who successfully complete this course should be able to:

- describe the most current process, requirements, recommendations, and resources for the OSHA Outreach Trainer Program;
- Discuss updates in OSHA’s General Industry Standards and policy since 2005;
- Explain best practices for general industry occupational safety & health;
- Demonstrate ability to effectively deliver OSHA general industry training as well as critique other trainers; and
- Conduct themselves in an ethical manner, respecting their roles as Authorized OSHA Outreach Trainers.

**Course Director:** Mary Malotke

**Course Dates:**
- July 30-August 1, 2012
- October 24-26, 2012
- December 12-14, 2012
- January 23-25, 2013
- April 10-12, 2013
- June 13-15, 2013
- August 14-16, 2013
- October 22-24, 2013
- December 18-20, 2013

**Class Size:** 15 maximum

**Tuition:** $600

**Credit Awarded:** 1.9 OSHA CEUs
All OSHA courses meet BCSP criteria for continuation of certification credit.

Trainer Course for the Maritime Industry, OSHA 5400
This course has been designed for all people working in the Maritime Industry who either want to learn more about workplace safety and health hazard recognition or who want to become OSHA authorized trainers for the 10 and 30-hour Maritime courses. Special emphasis have been placed on those areas in the Maritime industry that are the most hazardous, using the OSHA 29 CFR 1915; 1917 and 1918 standards as a resource. Course participants who successfully complete the course and pass a final exam will become OSHA Authorized Maritime Outreach Trainers, authorized to conduct both the 10 and 30-hour Maritime outreach courses.

Prerequisites
- Two years of occupational safety and health experience in the ship repairing, shipbuilding, ship-breaking, marine terminals, or long-shoring industry.
- And at least one of the following:
  - Two additional years of occupational safety and health experience in any industry.
  - A degree in occupational safety and health from an accredited college or university.
  - Certification as an Associate Safety Professional (ASP), Certified Safety Professional (CSP), Certified Industrial Hygienist (CIH).
  - Certified Marine Chemist (CMC, or Certified Safety and Health Manager (CSHM)).

Course Objectives
Upon successful completion of this course, participants will be able to:
- Instruct Maritime workers in OSHA 10 and 30-hour Maritime Standards hazard identification courses;
- Define Maritime terms found in the OSHA Maritime Standards;
- Identify hazards that occur in the Maritime Industry and determine appropriate standards;
- Describe the use of the OSHA Maritime standards and regulations to supplement and on-going safety and health program;
- Describe how to conduct internal training on the OSHA Maritime regulations.

Course Chairs: James R. Nisbet
Course Dates: November 13-16, 2012
April 16-19, 2013
June 4-7, 2013
November 4-7, 2013

Class Size: 15 maximum
Tuition: $800
Credit Awarded: 2.6 OSHA CEUs

OSHA 7000-SERIES COURSES

Trainer Course in Construction Noise, OSHA 7400
This 6-hour course is designed to increase the participant's knowledge and skill in construction noise reduction. The target audience is the small employer or a representative (e.g., line supervisor or manager) assigned the responsibility to develop a construction noise reduction program. Classroom demonstrations of noise instrumentation and hearing protection devices are featured.

Course Objectives:
At the conclusion of this course, students will be able to:
- Describe the properties of sound
- Discuss noise-induced hearing loss
- Explain OSHA's construction industry noise standards
- Demonstrate the use of a sound level meter and noise dosimeter
- Describe methods of controlling noise exposure at construction sites

Partial List of Course Topics
- Construction Noise
- Properties of Sound
- Noise-Induced Hearing Loss
- OSHA's Construction Industry Noise Standards
- Measuring Noise
- Hearing Protection

Course Director: James Romine, MS, CIH, CSP, CHMM
Course Dates: November 1, 2012
January 11, 2013
March 13, 2013
November 8, 2013

Class Size: 15 maximum
Tuition: $195
Credit Awarded: .7 OSHA CEUs

All OSHA courses meet BCSP criteria for continuation of certification credit.
Check with abih.org for procedures to obtain ABIH CM points for these courses.
Evacuation and Emergency Planning, OSHA 7105

This course focuses on OSHA requirements for emergency action plans and fire protection plans. Preparing for emergencies is a basic principle of workplace safety and health.

**Course Objectives**
- Elements of a good evacuation plan
- Reasons for emergency plans and fire prevention plans and when they are required
- Features a design and maintenance of good exit routes

The optional session for this course will focus on assessment of risk for terrorist attack and how to utilize OSHA’s evacuation planning and fire and explosion, as tools for emergencies.

**Course Director:** TBN

**Course Dates:**
- August 1, 2012
- November 1, 2012
- February 11, 2013
- August 21, 2013
- November 4, 2013

**Tuition:** $195

**Credit Awarded:** .4 CEUs

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Fall Hazard Awareness for the Construction Industry, OSHA 7405

The goal of this course is to provide small construction employers and employees with information on recognizing potential fall hazards at their work sites and suggest ways to avoid, minimize, control or prevent these hazards whenever possible. The course focuses on falls to a lower level rather than falls from slips and trips.

**Partial List of Course Topics**
- Identify Fall Hazards
- Analyzing Fall Hazards
- Preventing Fall Hazards
- OSHA Resources Addressing Falls

**Course Director:** Larry Wilson

**Course Dates:**
- October 8, 2012
- November 14, 2012
- February 11, 2013
- August 21, 2013
- November 1, 2013

**Tuition:** $195

**Credit Awarded:** .5 CEUs; 0.7 OSHA CEU

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Health Hazard Awareness, OSHA 7205

This one-day course provides an introduction to common health hazards that are encountered in the workplace. These health hazards will include exposure to chemicals, asbestos, silica, and lead. This course is designed as an awareness course for employers and employees.

**Partial List of Course Topics**
- Identification of hazard
- Sources of exposure
- Health hazard information
- Evaluation of exposure
- Engineering and work practice controls

This course features workshops and group activities.

**Course Director:** Tim Roberts/Larry Wilson

**Course Dates:**
- October 30, 2012
- December 12, 2012
- February 22, 2013
- May 7, 2013
- October 14, 2013
- December 11, 2013

**Class Size:** 20 maximum

**Tuition:** $195

**Credit Awarded:** .7 OSHA CEU

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Great Lakes Regional OTI Education Center
Introduction to Accident Investigations, OSHA 7505

Benefits
This 2-day course provides an introduction to basic accident investigation procedures and describes accident analysis techniques. The goal of the course is to help participants gain the basic skills necessary to conduct an effective accident investigation at their workplace. This course is set up as a facilitated, interactive training session focusing on class discussion and group activities.

Who Should Attend
Small employer, manager, employee or employee representative who, as part of a firm’s safety and health system, would be involved in conducting accident and/or near-miss investigations.

Partial List of Course Topics
• Primary reasons for conducting an accident investigation
• Employer responsibilities related to workplace accident investigations
• A six-step accident investigation procedure

Course Director: Larry Wilson

Course Dates: September 6-7, 2012
December 3-4, 2012
February 11-12, 2013
September 5-6, 2013
December 9-10, 2013

Class Size: 20 maximum

Tuition: $475

Credit Awarded: 1.4 OSHA CEUs;

Introduction to Combustible Dust Hazards, OSHA 7120

Course Description
The focus of this two-day course (minimum contact hours: 13) is to provide private businesses within general industry with an opportunity to enhance their awareness of the hazards posed by combustible dust. It focuses on recognizing the hazards and risks associated with combustible dust, as well as developing the controls and strategies that can help prevent or mitigate combustible dust fires and explosions.

Who Should Attend
members of private industry, including owners and managers, supervisors, maintenance and engineering staff, and other employees. Union officials and representatives may also benefit from attendance.

Partial List of Topics
• combustible dust explosions as a national problem,
• recognized control and mitigation methods, and
• control of electrical installation hazards for combustible dust areas.

In addition, the course offers information on the National Emphasis Program (NEP) for combustible dust inspections and OSHA and consensus standards impacting industries that generate combustible dust.

There is a test at the conclusion of the course.

This course will not focus on grain handling. Some examples from the grain industry may be used as illustrations of hazards and/or controls.

Course Director: TBA

Course Dates: July 30, 2012
January 31, 2013
February 26, 2013
August 22, 2013

Class Size: unlimited

Tuition: $195

Credit Awarded: 6.5 OSHA CEUs;
1.09 ABIH(Sfty)CM Points

Seminar on Combustible Dust Hazards, OSHA 7125

Course Description
This course is a shorter version of the OSHA 7120 course—completed in one day. The seminar format omits the Unit on Other NFPA standards, all workshops, and the test. The “Combustible Dust Definitions” handout is provided but not emphasized.

Course Director: TBA

Course Dates: July 30, 2012
January 15-16, 2013
May 14-15, 2013
July 29-30, 2013

Class Size: 30 maximum

Tuition: $475

Credit Awarded: 1.3 OSHA CEUs;
Introduction to OSHA for Small Businesses, OSHA 7510

This course provides an introduction to Occupational Safety and Health Administration (OSHA) for owners and managers of small business. The goal of the course is to help participants gain an understanding of OSHA operations and procedures and learn how they can work with OSHA to prevent or reduce injuries and illnesses in their workplaces.

Partial List of Course Topics
- Background of OSHA
- Coverage, Responsibilities and Rights under OSHA
- Standards
- OSHA Inspection Process
- Implementing a S&H Management System
- Assistance to Small Businesses

Course Director: Mary Malotke

Course Dates: August 3, 2012
December 13, 2012
February 25, 2013
August 23, 2013
December 17, 2013

Tuition: $195

Credit Awarded: .6 CEUs; No ABIH CM points

Introduction to Machinery and Machine-Guarding Safeguarding, OSHA 7100

This one-day course is designed to increase your skill, knowledge and motivation regarding machinery and machine safeguarding. It is the employer's responsibility to identify and select the safeguard necessary to protect employees and others in the work area, as well as train in safe practices. This course can also reduce your potential for accidents and injuries by knowing when and how to safeguard machinery.

Course Objectives:
Students completing this course should be able to:
- Explain the hazardous actions and motions machinery and where these movements occur so you know where to look.
- Identify methods of safeguarding so that you can recognize the wide variety of tools that are available to assist you in your safeguarding efforts.
- Identify safeguarding required by specific OSHA standards to assist you in assuring regulatory compliance.

Partial List of Course Topics
- OSHA's NEP for "3S's & a P"
- Basics of Machine Safeguarding
- Methods of Safeguarding
- Control of Hazardous Energy Sources (Lockout/Tagout)
- Personal Protective Equipment
- Training
- Safer Work Practices

Course Director: Larry Wilson

Course Dates: August 2, 2012
October 22, 2012
January 30, 2013
August 20, 2013

Class Size: 20 maximum

Tuition: $195

Credit Awarded: .7 OSHA CEUs

Note: Some math ability is required. Trainees will need a calculator with log functions.

Introduction to Safety and Health Management, OSHA 7500

Benefits
The focus of this one-day workshop is the effective implementation of a company's safety and health management system. The workshop address the four core elements of an effective safety and health system and those central issues that are critical to each element's proper management.

Who Should Attend
Small employer, business owner or manager designated with the responsibility to develop and manage a firm's safety and health programs or systems.

Objectives
- Explain the benefits of implementing a safety and health management system.
- Identify the core elements of an effective safety and health program.
- Describe the key processes in each program element.

Partial List of Course Topics
- Overview of S&H Management Systems
- Management Leadership and Employee Involvement
- Worksite Analysis
- Hazard Prevention and Control
- Safety & Health Training Requirements

Course Director: Larry Wilson

Course Dates: October 29, 2012
November 13, 2012
February 21, 2013
March 12, 2013
May 8, 2013
October 17, 2013
November 19, 2013

Class Size: 20 maximum

Tuition: $195

Credit Awarded: .7 OSHA CEUs
Lockout/Tagout: Controlling Hazardous Energy to Prevent Workplace Injury, OSHA 7115

This 1-day course is designed to inform employers of best practices in the Control of Hazardous Energy/Lockout Safety. The goal of the course is to help participants determine their companies’ lockout/tagout compliance issues based on OSHA 1910.47: Control of Hazardous Energy (lockout/tagout).

Course Objectives
At the conclusion of this six-hour course, the participant will be able to determine their companies’ lockout/tagout compliance issue based on OSHA 1910.147 Subpart J: Control of Hazardous Energy.

Partial List of Course Topics
- The understanding and application of definitions relating to OSHA’s Control of Hazardous Energy Standard;
- Types of hazardous energy;
- Energy isolation options;
- Written program requirements;
- Training guidelines

Course Director: Tim Roberts

Course Dates: July 24, 2012
October 16, 2012
January 14, 2013
March 11, 2013
May 13, 2013
July 16, 2013
October 18, 2013

Tuition: $195
Credit Awarded: .6 OSHA CEUs,

Managing Excavation Hazards, OSHA 7410

Benefits
At the conclusion of this course, the participant will be able to explain the importance and duties of a competent person during excavation work, and will demonstrate the knowledge and skills required to perform those duties.

Who Should Attend
The private sector construction employer, manager, employee or employee representative, who, as part of a safety and health program, would be acting as and fulfilling the requirements of a competent person for excavation

Partial List of Course Topics
- application of definitions relating to OSHA’s Excavation Standard
- Excavation hazards and control measures
- Soil analysis techniques
- protective system requirements
- Emergency response

Course Director: Michael Hayslip, Esq.

Course Dates: November 15, 2012
February 20, 2013
March 25, 2013
May 6, 2013
November 21, 2013

Class Size: 20 maximum
Tuition: $195
Credit Awarded: .7 OSHA CEUs;

Safe Bolting: Principles & Practices, OSHA 7110

Course Description
This course is designed to provide awareness of safety issues so that the participant, upon completing the course, will possess the knowledge and skills to recognize when danger is present in a bolting application, stop, and inform their supervisor. The course is not intended to be a comprehensive review of all topics, nor is it a course on bolt or joint engineering. It does not supersede local rules and regulations, nor does it provide all of the tools to solve bolting-related safety issues.

Who Should Attend
This course is targeted to first-line mechanical operators and those who supervise their work. This course can and should be presented to groups of individuals with a common specialization. In most cases, the work of the participants will specialize in either pressure vessel, mechanical, or structural bolting.

Course Director: Jon Gans, PhD

Course Dates: July 31, 2012
November 15, 2012
January 17, 2013
March 15, 2013
July 18, 2013
August 19, 2013
November 22, 2013

Class Size: 15 maximum
Tuition: $195
Credit Awarded: .6 OSHA CEUs;

All OSHA courses meet BCSP criteria for continuation of certification credit.
## Blood Borne Pathogens Exposure Control for Healthcare Facilities, OSHA 7200

This purpose of this one-day course is to develop a Bloodborne Pathogens Exposure Plan for healthcare facilities using a step-by-step approach. The target audience is the program administrator, manager, or other personnel designated with the responsibility of developing a Bloodborne Pathogens Exposure Control Plan for a small healthcare facility.

**Partial List of Course Topics**

- Introduction to Bloodborne Pathogens Standard
- Exposure Control Plan
- Exposure Determination
- Methods of Control
- Vaccinations and Evaluations
- Training and Information
- Recordkeeping

**Course Director:** Mary Malotke

**Course Dates:**
- November 7, 2012
- January 31, 2013
- February 27, 2013
- November 25, 2013

**Tuition:** $195

**Credit Awarded:** .7 CEUs;

## OSHA Construction Industry Requirements: Awareness of Major Hazards and Prevention Strategies, OSHA 7415

This 2-day course provides participants with pertinent Information regarding OSHA requirements and guidelines applicable to construction industry activities and operations. The goal of the course is to help participants gain an awareness level necessary to be able to describe major construction hazards and prevention strategies.

**Partial List of Course Topics**

- Recognition of Major Safety and Health Hazards in Construction
- Prevention strategies which include safety and health management systems
- OSHA Requirements and Guidelines
- OSHA Resources
- Focus Four Emphasis

**Course Directors:** Timothy R. Roberts
- Larry W. Wilson

**Course Dates:**
- September 11-12, 2012
- April 4-5, 2013
- September 9-10, 2013

**Tuition:** $475

**Credit Awarded:** 1.4 CEUs;

## OSHA Ergonomic Guidelines Training for Nursing Homes, OSHA 7000

The focus of this one-day course is to use OSHA’s Ergonomics Guidelines for Nursing Homes to develop a process to protect workers in nursing homes. The course will focus on analyzing and identifying ergonomic problem jobs and practical solutions to address those problems.

**Partial List of Course Topics**

- Developing an ergonomic process
- Risk factors in the nursing home guidelines
- Identifying problems including protocols for resident assessment
- Implementing solutions including work practices and engineering solutions.

**Course Objectives:**

At the end of this training course you will be able to:

- Describe how to apply OSHA’s Ergonomics Guidelines for Nursing Homes in developing a process to protect nursing home workers
- Discuss the benefits of implementing an ergonomics process
- Identify and analyze ergonomic problem job in nursing homes
- Recognize practical solutions to address ergonomic problem jobs.

**Course Director:** Mary Malotke

**Course dates:**
- November 6, 2012
- December 11, 2012
- January 23, 2013
- October 25, 2013
- November 26, 2013

**Tuition:** $195

**Credit Awarded:** 7 CEUs
- 7 Nursing contact hours

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*All OSHA courses meet BCSP criteria for continuation of certification credit.*

*Check with abih.org for the procedure to obtain ABIH CM points for these courses.*
OSHA’s Introduction to the Permit-Required Confined Space Standard, OSHA 7300

This one-day course discusses the requirements of OSHA’s permit-required confined space standard, 29 CFR 1910.146. It is designed for small employers or a designated representative (line supervisor or manager) with the responsibility to develop a permit space program. It covers OSHA’s requirements and also includes limited hands-on sessions.

Partial List of Course Topics
- Scope of Definitions
- General Requirements
- Permit Space Program
- Training Requirements
- Employee Roles, and Rescue

Course Objectives:
At the end of this training course, students will be able to apply the requirements of OSHA’s permit-required confined space standard, 29 CFR 1910.146. They will be able to:
- Discuss the scope, application and key definitions
- Identify responsibilities of host and contractors in permit space entry
- Distinguish among the three options for entry and identify the requirements associated with these options
- Describe the requirements for Permit programs and the permit system
- Explain training requirements
- Discuss the types of rescue and employer responsibilities

Course Director: TBN

Public Industrial Warehousing and Storage, OSHA 7005

This one-day course is designed to increase the participant's knowledge, and provide them with the basic concepts of safe warehouse and storage operations. According to the Bureau of Labor Statistics, Public Warehousing and Storage employs over 213,000 employees. The target audience for this course is the small employer, business owner, or a representative (e.g. line supervisor or site manager) designated with the responsibility for developing safe procedures during warehousing and storage operations. The training is also suitable for the safety manager, safety teams, or any other participants who deal with warehouse safety.

Course Objectives:
Students completing this course should be able to:
- Explain the hazards of operating a powered industrial truck in warehouse and storage facilities.
- Explain the hazards associated with material handling in warehouse operations.
- Identify the purpose of the Hazard Communication Standard and describe employer and employee responsibilities under HazCom.
- Discuss exit routes and emergency action and fire prevention plans
- Describe the hazards of wall and floor openings.

Partial List of Course Topics
- Powered Industrial Trucks
- Material Handling/Lifting/Ergonomics
- Hazard Communication
- Walking and Working Surfaces
- Exit Routes and Fire Protection

Course Director: Timothy R. Roberts

Recording and Reporting Occupational Injuries and Illnesses, OSHA 7845

The purpose of this 4-hour course is to assist employers in identifying and fulfilling their responsibilities for posting and maintaining records of illnesses and injuries and reporting specific cases to OSHA. Several practice sessions are included.

Who Should Attend
Employees of the private sector companies who have responsibilities under OSHA’s revised recordkeeping Rule 29 CFR 1904, which took effect January 1, 2002.

Course Objectives
- Identify the OSHA requirements for recordkeeping, posting, and reporting
- Complete the new OSHA forms 300, 300A and 301

Course Director: Mary Malotke

Course Dates:
June 29, 2012
November 2, 2012
February 22, 2013
May 10, 2013
July 19, 2013
November 8, 2013

Class Size: 25 maximum

Tuition: $125

Credit Awarded: .35 OSHA CEUs

All OSHA courses meet BCSP criteria for certification credit.
ON-SITE TRAINING!

Any of our courses can be brought to your site if you have 10 or more employees to train. To receive an on-site training cost estimate, Fax or mail your written request (include name of course, number of trainees, course site, and approximate dates for training) to:

Mr. William Menrath, Director; Occupational Health & Safety Continuing Education; Department of Environmental Health College of Medicine; University of Cincinnati; Mail Location 0510; 2180 East Galbraith Road; Cincinnati, OH 45237-1625; Fax: 513/558-1756.

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How to Register for a Course

Easy Ways to Register:

1. **By Mail** - Simply complete the registration form at the end of this catalog and mail it with your check, credit card number to: Occupational Health & Safety Continuing Education, Mail Location 0510, University of Cincinnati, UC Reading Campus, 2180 E. Galbraith Rd, Cincinnati, OH 45237-0510.

2. **By Phone** - Call 800/207-9399 or 513/558-1730 and we will gladly take your registration via the telephone.

3. **By Fax** - Fax your completed registration form to 513/558-1756. Send it to the attention of "Occupational Health & Safety Continuing Education." Do not include your credit card information in the fax—please call to give us the number.

4. **On-Line** – Our new on-line registration will be available in January 2013.

**Advance registration with prepayment of tuition is required. Registrations will not be accepted without payment.** Please make your check payable to University of Cincinnati.

Classes are filled in the order registrations are received.

Tuition includes course materials, coffee breaks, and a certificate of completion. Registrants are responsible for housing. Detailed information regarding course location and housing availability will be sent upon receipt of your registration.

**Refund Policy**

Tuition minus 5% administration charge will be refunded if written cancellation is received two weeks prior to the program date. Registration is nonrefundable within two weeks of the course date. Substitutions may be made at any time, but transfers to future courses cannot be made within the two-week nonrefundable period.

The university reserves the right to cancel programs if necessary. In this event, the university’s liability is limited to the full refund of your registration fee.

**Team Discount**

Any organization sending three or more students to a single program and same date is entitled to a 10 percent discount on each registration fee.

**Alumni Discount**

Alumni and currently enrolled full-time students of the University of Cincinnati are entitled to a 10 percent discount on their registration fees. Degree and year of graduation must accompany all registrations requesting the discount.

**Housing and Meals**

Housing and meals are generally not provided. Registrants will be sent information about housing in the pre-course information letter.

* Only one category of discount may be claimed for each course and must be requested in advance of the course. Discounts are not available for the on-line Occupational Medicine Training Modules.

www.eh.uc.edu/hsce
Registration Form

Help wanted!!! Please let us know which courses you need. Results of this survey will be used in planning future course offerings.

1. My primary responsibility is:
   - Industrial Hygiene
   - Occupational Medicine
   - Toxicology
   - Occupational Safety
   - Occupational Health Nursing
   - Other

2. I live in region:
   - I
   - II
   - III
   - IV
   - V
   - VI
   - VII
   - VIII
   - IX
   - X
   - Foreign Country

3. My primary employer is:
   - Private Industry
   - Federal Government
   - Academia
   - State Government
   - Local Government
   - Insurance
   - Other: __________________________

4. Please review the list of potential continuing education topics below.
   Check those in which your need or interest is high:
   - Aerosol Measurement
   - Asbestos Abatement
   - Back Injury Prevention
   - Biological Monitoring
   - Carpal Tunnel/Cumulative Trauma Disorders
   - Industrial Toxicology
   - Certified Hazardous Materials Manager Study Course
   - Environmental Audit/Assessment
   - Epidemiology
   - Ergonomics
   - Farm Safety/Accident Prevention
   - Hospital Health and Safety
   - Industrial Hygiene-Introduction
   - The Aging Workforce
   - Industrial Hygiene Review (Study Course for CIH exams)
   - Lead Abatement
   - Legal Issues in Occupational Safety & Health
   - Occupational Health Nursing Principles & Practices
   - Occupational Medicine Training
   - Occupational Safety Review for ASP&CSP Exams
   - Pulmonary Function Testing
   - Radon Mitigation
   - Reproductive Hazards in the Workplace
   - Respiratory Protection
   - Risk Assessment
   - Other __________________________
   - I prefer on-line training to classroom for topic(s):
     __________________________

Please register me for:

Course Name(s) __________________________________________

Course Date(s) __________________________________________

Name __________________________________________

Last 5 digits SS: __________ Date of Birth: __________

Employer __________________________________________

Business Address ______________________________________

City __________________ State __ Zip Code ______

Telephone __________ FAX __________

Email address ______________________________________

Do you require special services or accommodations? No Yes

Explain: ____________________________________________

This form is a confirmation of a phone registration.

Checks must be made payable to: "University of Cincinnati" and mailed to:
Occupational Health & Safety Continuing Ed.
U.C. Reading Campus, ML-0510
University of Cincinnati
2180 E. Galbraith Ave.
Cincinnati, Ohio 45237-1625

Phone: 513/558-7741 or 800/207-9399
FAX: 513/558-1756

☐ Check Enclosed
☐ Credit Card (circle one): Visa MasterCard

Please call 513/558-1730 or 800/207-9399 for credit card payments.