



Online Training Resources in Occupational Safety and Health

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Continuum of E-Learning

- Email correspondence
- Web-based forums and list serves
- Web-based portals
- Literature searches (Pubmed)
- Government sources
- Case studies
- Webcasts



Continuum of E-Learning

- Blended courses (partial online and partial web-based)
- Web-based short courses
- Web-based academic courses
- Web-based degree programs



Web-based Forums

- Occ-Env-Med-L (free)
 - Founded and managed in at Duke University Medical Center
 - Professional community of nearly 2,800 readers (clinicians and public health experts). Each member receives 300-350 messages each month



Web-based Forums

- Medical Center Occupational Health
- American Industrial Hygiene Association
- SAFETY (University of Vermont)
- UK's OCCENVMED
- HS-Canada
- RST-LAC (Latin American)
- MediTrav (French)



International Portals

- Canadian Centre for Occupational Safety and Health
- European Agency for Safety and Health at Work
- ILO International Occupational Safety and Health Information Centre
- NIOSH



International Portals

- Finnish Institute of Occupational Health
- IARC-WHO
- Institut National de Recherche et de Securite
 - http://www.inrs.fr/index_fla.html
- Ministerio de Trabajo y Asuntos Sociales
 - <http://www.mtas.es/>

Canadian Centre for Occupational Health and Safety

- WHO Collaborating Centre in Occupational Health
- www.ccohs.org
- Training materials can be ordered in a variety of formats
- Announces upcoming courses

The screenshot shows the homepage of the Canadian Centre for Occupational Health and Safety (CCOHS). The website features a navigation menu with links for Home, About Us, E-News, OSH Events, Resources, and Shop@CCOHS. The main content area includes a search bar, a 'Subscriber's Corner' section with a 'LOGIN' button, and a 'Web Databases' section listing various resources. A prominent 'Chemicals' banner is visible, along with a 'Products and Services' section. The footer contains contact information and service links for Client Services, Inquiries Service, and Webmaster.

European Agency for Safety and Health at Work

- Set up by European Union
- In Bilbao, Spain
- <http://europe.osha.eu.int/research/>
- Guide to training resources in Europe



The screenshot shows the website interface for the European Agency for Safety and Health at Work. The header features the agency's logo and the text "European Agency for Safety and Health at Work". Below the header is a navigation menu with links for "Home", "About", "EU", "EN", "ES", "PT", "FR", "IT", "NL", "PL", "SK". The main content area is divided into several sections:

- Welcome:** A box with the text "Free Link to Safety and Health at Work" and the URL "http://agency.osha.eu.int".
- Search the Agency's network:** A search bar with a "Search" button.
- OSHmail - free email newsletter:** A section for signing up for a newsletter, including a text input field for an email address and a "Subscribe now!" button.
- Features:** A list of featured content including "Guide to the EU 6th Framework Programme on Research", "OSH Monitoring Systems", "Fisheries Sector", "OSH and education", "Changing World of Work", "SME Funding Schemes", "European Week", "Health Care Sector", "Future community strategy on OSH", "Accident Prevention", and "Musculoskeletal Disorders (MSD)".
- What's new:** A section dated "22.01.2003" with a link to "Website: Guide to the Occupational Safety and Health aspects of the EU 6th Framework Programme on Research".

On the left side, there is a vertical navigation menu with links for "Welcome", "News & Events", "Legislation", "Good Practice", "Research", "Statistics", "Systems", "Training", "Topics", "Publications", "Discussion", "Search", "FAQ", "Help", "Comments", "Sitemap", "What's New", "Translation Help", and "Agency Info".

On the right side, there is a vertical list of country codes: "EU", "A", "B", "D", "DK", "E", "F", "FIN", "GR", "I", "IRL", "LUX", "NL", "P", "S", "UK", "CH", "ES", "NO", "BG", "EE", "HU", "LI", "MT", "PL", "RO", "SI", "INT", "ILO", "WHO", "AU", "CAN", "US".

ILO

- International Labor Organization
- <http://www.ilo.org/public/english/>

The screenshot shows the ILO website homepage with a blue header and a white background. The ILO logo is in the top left corner. The main content area is divided into several sections:

- STANDARDS AND FUNDAMENTAL PRINCIPLES AND RIGHTS AT WORK**
 - International Labour Standards
 - Promoting the Declaration
 - Old labour IPEC
- EMPLOYMENT**
 - Disb response and reconstruction
 - Skills, knowledge and employability
 - Boosting employment through small enterprise development
- SOCIAL PROTECTION**
 - Socio-economic security
 - Safe Work
 - ILO/AIDS
- SOCIAL DIALOGUE**
 - Strengthening social dialogue

Featured sites

- Second Meeting of the Tripartite Subgroup of the High-level Tripartite Working Group on Maritime Labour Standards (Geneva, 2-7 February 2002)
- Joint Meeting on the Public Emergency Services: Social Dialogue in a Changing Environment
- Collection of national instruments related to HIV/AIDS and the world of work
- Real Madrid football club teams up with ILO to fight child labour (video clip)
- Governing Body Home - Current Session
- China Employment Forum
- Of Every 100 Children... Child Labour Today
- Key indicators of the labour market (KILM)
- World of Work: The magazine of the ILO
- International Labour Conference

Official documents in Arabic, Chinese, German and Russian

1. Select a language 2. Select a document type

Arabic International Labour Conference

Departmental pages and official documents

Quick access:

ILO: CIS



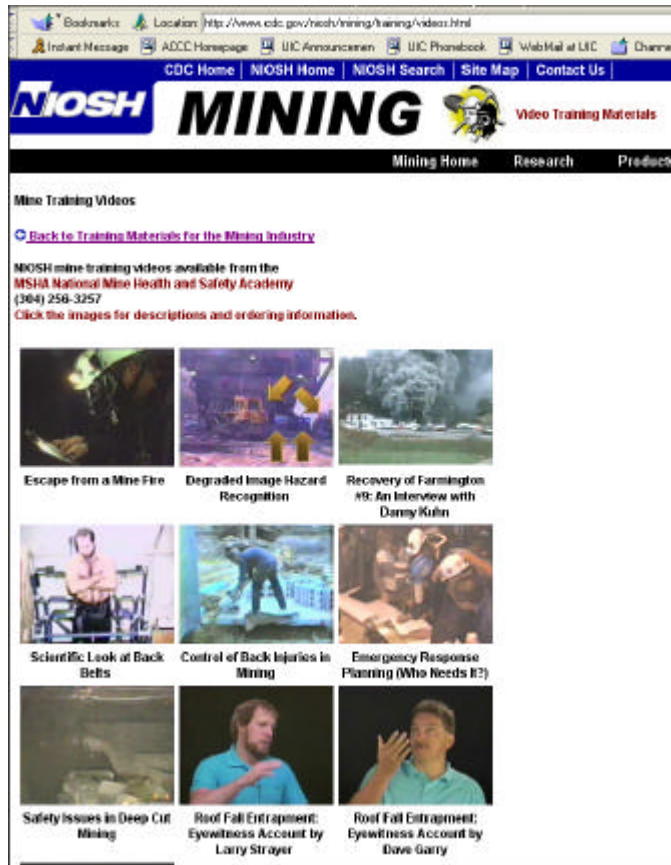
- International Occupational Safety and Health Information Centre
 - <http://www.ilo.org/public/english/protection/safework/cis/>
- Network of Centres
 - <http://www.ciscentres.org/>

NIOSH

- U.S. National Institute of Occupational Safety and Health
- WHO Collaborating Centre
- <http://www.cdc.gov/niosh/homepage.html>
- NIOSH publications



NIOSH: Mining



A screenshot of the NIOSH Mining website's video training materials page. The browser address bar shows the URL: <http://www.cdc.gov/niosh/mining/training/Videos.html>. The page features a navigation bar with links for CDC Home, NIOSH Home, NIOSH Search, Site Map, and Contact Us. The main heading is "NIOSH MINING Video Training Materials". Below this, there are tabs for Mining Home, Research, and Products. The content area is titled "Mine Training Videos" and includes a link to "Back to Training Materials for the Mining Industry". A paragraph states: "NIOSH mine training videos available from the MSHA National Mine Health and Safety Academy (304) 256-3257. Click the images for descriptions and ordering information." There are nine video thumbnails arranged in a 3x3 grid, each with a caption: "Escape from a Mine Fire", "Degraded Image Hazard Recognition", "Recovery of Farmington #B: An Interview with Darryl Kuhn", "Scientific Look at Back Belts", "Control of Back Injuries in Mining", "Emergency Response Planning (Who Needs It?)", "Safety Issues in Deep Cut Mining", "Roof Fall Entrapment: Eyewitness Account by Larry Strayer", and "Roof Fall Entrapment: Eyewitness Account by Dave Garry".



A screenshot of the NIOSH Mining website's training materials page. The browser address bar shows the URL: <http://www.cdc.gov/niosh/mining/training/Videos.html>. The page features a navigation bar with links for CDC Home, NIOSH Home, NIOSH Search, Site Map, and Contact Us. The main heading is "NIOSH MINING Safety and Health Research". Below this, there are tabs for Mining Home, Research, Products, Data, Videos, and About Us. The content area is titled "NIOSH Training Materials for the Mining Industry" and includes a paragraph: "Most NIOSH developed mine training materials can be ordered through the National Mine Health & Safety Academy, 304-256-3257." There are three sections: "Videos" (available by mail only), "Printed materials" (available by mail or download), and "Software" (including Coal Country, Recommended SCSE donning practices, and MCRMS).

Finnish Institute of Occupational Health

- WHO Collaborating Centre
- <http://www.occuphealth.fi/e/>
- Training publications can be purchased
- Electronic magazines



Finnish Institute of Occupational Health: Electronic Magazines

- African Newsletter on Occupational Health and Safety
- Asian Pacific Newsletter on Occupational Health and Safety
- Barents Newsletter on Occupational Health and Safety
- Estonian Newsletter on Occupational Health and Safety
- WHO Collaborating Centres Network Newsletter



Academic Portals

Program Search

Please check the proper check box(es) for the search criteria you are using.

<input type="checkbox"/>	Biomedical Lab Sciences	<input type="checkbox"/>	Distance Learning: Academic Credit
	Biostatistics		Distance Learning: Certificate
	Communication Sciences and Disorders		Distance Learning: Continuing Education Credits
	Environmental Health Sciences		Distance Learning: Degree
	Epidemiology		Distance Learning: Non-Credit
	Exercise Science		
	Health Administration	<input type="checkbox"/>	Asynchronous
	Health Education/Behavioral Sciences		Audioconference
	Health Law		Computer conferencing
	Health Services Research		Computer-based Training
			Internet based
			Internet video
			On-Campus
			Other
			Satellite
			Synchronous

Search

- Association of Schools of Public Health
- Searchable database
- www.ASPH.org

Academic Portals



The screenshot shows the COEH homepage with a navigation menu on the left and a main content area. The navigation menu includes links for Learning, MSc/Medical Biometrics, MSc Diploma in Occupational Health, Distance Learning, Research, and Find Contact Us. The main content area features a welcome message and a brief description of the center's mission and history.

Learning	Welcome to the website for the Centre for Occupational and Environmental Health (COEH) of the University of Manchester.
MSc/Medical Biometrics	
MSc Diploma in Occupational Health	This Centre is a mixed teaching and research unit, and is amongst the best of its kind in Britain. The Chair of Occupational Medicine at the University of Manchester was founded in 1947, thus the COEH is probably the oldest existing academic unit in its field in any British University. (A page about the history of the centre is in preparation.)
Distance Learning	
Research	The Centre runs a successful postgraduate Diploma and Master's programme for Occupational Physicists and Occupational Hygienists through Distance Learning, as well as a popular Continuing Professional Education programme. (The majority of occupational physio and safety professional examinations in the UK have been trained by the COEH.)
Find Contact Us	The COEH has an active research programme with particular strengths in the epidemiology of respiratory, cardiovascular, nervous and reproductive, disease and work of the environment. It is home to The Health and



The screenshot shows the 'Occupational and Environmental Medicine WWW Resource Index' from Duke University. It features a search bar, a list of links to various resources, and a section for 'United States Federal Government Agencies'. The page also includes a 'Search' button and a 'OSHA Documents Entirely Indexed' section.

Occupational and Environmental Medicine
WWW Resource Index
DUKE

There are a lot of external links from the OEH (OSHA pages, freely available to the public) to the actual agencies involved. Emphasis is on sites where the information available is good. [KeyWord](#) the index and biography of the sponsor, with guide information for our Occupational & Environmental Medicine community.
Update: Tasha, November 24, 2002 10:35:10

United States Federal Government Agencies

Search for any combination of words used in OSHA's online presence. You'll be able to distinguish whether you mean the regulations, the interpretations or other documents.

- index to OSHA standards
- index to OSHA enforcement rules
- OSHA Enforcement Table Index

- University of Manchester, UK
 - <http://www.coeh.man.ac.uk/>
- Duke University, U.S.
 - <http://dmi-www.mc.duke.edu/oem/index2.htm>

Professional Society Portals



- International Commission on Occupational Health
 - <http://www.icoh.org.sg/>
- American College of Occupational and Environmental Medicine
 - <http://www.acoem.org/>



Commercial Portals

- WorldWideLearn
 - Directory of online courses, online learning, online education
 - www.worldwidelearn.com
- Listed offerers of courses and certificates:
 - 23 entities



Literature Searches

- Medline

- National Library of Medicine
- Biomedical
- [Http://pubmed.gov](http://pubmed.gov)

- Toxnet

- National Library of Medicine
- Includes several toxicology, non-clinical databases
- [Http://toxnet.nlm.nih.gov](http://toxnet.nlm.nih.gov)

Government Sources

OSHA

- U.S. regulatory agency for occupational safety and health
- www.osha.gov
- OSHA Training Institute
- Public domain training materials



The screenshot displays the OSHA website's "Training and Reference Materials" page. At the top, the U.S. Department of Labor logo and "Occupational Safety & Health Administration" are visible, along with the website URL www.osha.gov and a search bar. Below the header, the page title "Training and Reference Materials" is centered. A list of links includes: 1,2-Butadiene; Asbestos Standards (Revised); Longshoring & Marine Terminals; Nationally Recognized Testing Laboratories (NRTLs); Nursing Homes; Powered Industrial Truck Training; Respiratory Protection Standard; Scaffolds; Silicosis; Small Business; Tuberculosis; and Workplace Violence. A note states: "NOTE: This document is currently being updated to reflect OSHA Policy." At the bottom, there are links for "Back to Top", "www.osha.gov", and "www.dol.gov", along with a footer containing "Contact Us | Freedom of Information Act | Information Quality | Customer Survey | Privacy and Security Statement | Disclaimers" and the address: "Occupational Safety & Health Administration, 200 Constitution Avenue, NW, Washington, DC 20210".

OSHA: Silicosis Training

Outreach Materials for Silicosis - Special Emphasis Programs

- [Memo from OTE describing all Outreach Materials Available](#)
- [OSHA's Special Emphasis Program \(SEP\) for Silicosis](#)
- [Where to get OSHA Outreach Materials](#)

Describing the Silicosis SEP

- [Eleven \(11\) slides describing the "Silicosis SEP"](#)
- [Overheads](#)
- [Safety & Health Factors for Working with Silica - 1996 \(78 slides & script\)](#)

Pocket Card for Health Hazard information cards on Silicosis

- [General Industry \(WordPerfect 6.1 files\)](#)
- [Construction \(WordPerfect 6.1 files\)](#)

NIOSH materials on Silicosis

- [Hazard Alert for Rockdrillers](#)
- [Hazard Alert for Sandblasters](#)
- [Silicosis Fact Sheet for Construction Workers](#)
- [NIOSH Silica/Silicosis Contact List \(May 1996\)](#)
- [List of NIOSH Certified Roentgenographic Interpreting Physicians - B Readers by State.](#)

Outreach Materials for OSHA's Special Emphasis Program (SEP) for Silicosis

Please select a option:

Pack & Go, Slide Show	Size
 Download a PowerPoint Pack and go File - Please Note: To run this PowerPoint Presentation, first uncompress the self-extracting file that will be downloaded. Then run "pognsetup.exe" located in the same directory.	6.4 MB
 View the Slides in the PowerPoint Presentation	11.5 MB



1
Word Slide

Focus



2
Word Slide
Credits

U.S. Department of Labor, OSHA,
Office of Training & Education



3
Word Slide
Title

Silica



Government Sources

- ATSDR

- U.S. Agency for Toxic Substances and Disease Registry
- Toxicology profiles
- [Http://www.atsdr.cdc.gov](http://www.atsdr.cdc.gov)

- EPA Pesticides

- [Http://epa.gov/pesticides/safety/index.htm](http://epa.gov/pesticides/safety/index.htm)

Electronic Libraries

Locate Items By:

- Hazard
- Trade
- Job Site
- Other
- Training
- Español
- Non-English Materials
- Search
- Site Map
- Links
- Help
- Contact Us

What's New

Upcoming Meetings

eLCOSH Intro (uses Flash 6)

Developed by the [Center to Protect Workers' Rights](#) with funding by NIOSH

About

eLCOSH
Electronic Library of Construction
Occupational Safety and Health

Search Locate Items By: Training
Site Map Hazard | Trade | Job Site | Other Non-English Materials
CDC NIOSH Español Contact Us Links Help

Training Programs for Safety and Health : Materials

Tailgate/Toolbox Talks

- [Fork Lift Awareness](#)
- [Masonry Information Bulletin - Good Scaffold Practices 1 - From the Ground Up](#)
- [Project Reaches Million-Hour Mark With Built-in Safety Program.](#)
- [Tailgate Meetings That Work : A Guide to Effective Construction Safety Training](#) **Spanish**
 - [Adhesives and Resins Training Guide](#)
 - [Asbestos Training Guide](#)
 - [Asphalt Training Guide](#)
 - [Backs & Lifting Training Guide](#) **Spanish**
 - [Cement & Concrete Training Guide](#)
 - [Chemical Spills Training Guide](#)
 - [Cold Training Guide](#)
 - [Fall Protection - Case Studies](#) **Spanish**
 - [Fall Protection Training Guide](#) **Spanish**
 - [Fiberglass Training Guide](#)
 - [Guardrails Training Guides](#)
 - [Hand-Arm Vibration Training Guide](#) **Spanish**
 - [Hand Tools Training Guide](#) **Spanish**
 - [Heat Training Guide](#)
 - [High Voltage Lines Training Guide](#) **Spanish**
 - [Housekeeping Training Guide](#) **Spanish**

Webcasts

- Combination of slide presentation (e.g. PowerPoint) with audio and video



THE ILLINOIS COMMUNITY OF EXCELLENCE IN ENVIRONMENTAL HEALTH

Great Lakes Century Home

WELCOMET

www.uic.edu's phyl/akes/

Illinois Center of Excellence


Webcast Archives

Welcome to the Community of Excellence webcast archives. These archives are designed to provide the Illinois environmental health workforce with easily accessible information on exposure assessment and toxicology. Each webcast has been archived for your convenience, so you can listen to a session any time you choose. You will need RealPlayer to hear the broadcast. [Click here to download the free version of the Player.](#) The webcasts consist of an audio presentation and a slide presentation. You do not need to advance the slides. The audio and the slides are synced and will advance automatically.

Topic	Presenter
Answering Questions about Fund and Other Risks for ME	Salvatore Cali, MPH, CIH Coordinator, Environmental Health Hazard Evaluation program University of Illinois at Chicago
Spotlight on Children's Environmental Health	Marcane Suro, PhD US EPA, Region 5 Regional Team Manager, Children's Health
IDPH Safe Chemicals in School Project	Ken Puzkile Jennifer Davis Environmental Health Specialists Illinois Department of Public Health
Industrial Hygiene: Assessment, Controls, Design and Prevention	Lorraine Conroy, ScD, CIH Associate Professor University of Illinois at Chicago School of Public Health
West Nile Virus Update	Douglas Pazzano, MD, MPH Associate Professor Epidemiology & Biostatistics University of Illinois at Chicago School of Public Health
Disease & Vector Management of West Nile Virus	Daniel Tascier, PhD Assistant Professor & Toxicologist Environmental and Occupational Health Sciences University of Illinois at Chicago School of Public Health
Taking an Environmental History	Daniel Hyehowczuk, MD, MPH Director, Great Lakes Centers University of Illinois at Chicago School of Public Health
Carpenter Chutes	Joel McCallough, MD, MPH Chicago Department of Public Health
Taking an Occupational History	Jaqueline Wustner, RN, MPH John H. Stroger Hospital of Cook County Division of Occupational & Environmental Medicine Chicago, Illinois

Case Studies on the Web

- Clinical case studies in environmental medicine
- U.S. ATSDR
- www.atsdr.cdc.gov/HEC/CSEM
- 30 case studies for clinicians on specific toxins



Case Studies in Environmental Medicine

The Case Studies in Environmental Medicine (CSEM) are a series of self-instructional publications designed to increase the primary care provider's knowledge of hazardous substances in the environment and to aid in the evaluation of potentially exposed patients. Continuing medical education credits, continuing nursing education units, and continuing education units are offered by the Agency for Toxic Substances and Disease Registry (ATSDR) in support of this series.

News

Updated versions of the following CSEMs are now available online:

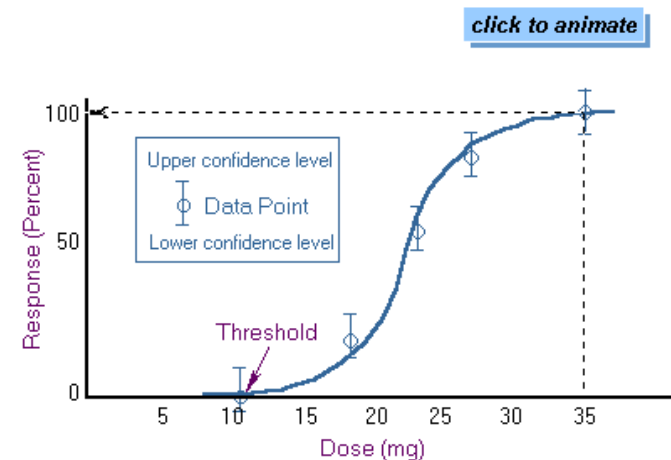
- [Arsenic Toxicity](#),
- [Asbestos Toxicity](#),
- [Chromium Toxicity](#),
- [Environmental Triggers of Asthma](#),
- [Pediatric Environmental Health](#),
- [Stoddard Solvent Toxicity](#),
and the
- [Trichloroethylene \(TCE\) Toxicity](#).

Continuing education credit is available online free of charge!

Short Courses on the Web

- Toxicology
- U.S. National Library of Medicine
- <http://sis.nlm.nih.gov/Tox/ToxTutor.html>
- 3 modules
- Self-assessment questions
- Complete in 2 hours

Dose responses are commonly presented as mean \pm 1 S.D. (*standard deviation*), which incorporates 68% of the individuals. The variance may also be presented as two standard deviations, which incorporates 95% of the responses. A large standard deviation indicates great variability of response. For example, a response of 15 ± 8 mg indicates considerably more variability than 15 ± 2 mg.



Short Courses on the Web

- Envirorisk
- www.uic.edu/sph/cade/envirorisk
- UIC GLC
- Interactive course
- 2 hours to complete

EnviroRisk

Goals & Objectives
Directions
System Requirements
Contributors
Cont. Ed. Credits
Target Audience
Sign In / Begin

Envirorisk is a case-based, problem-solving program in environmental risk assessment and risk communication. You will play the role of a public health professional as you go through the course. This course will develop your ability to investigate an environmental health problem and serve as a resource and risk communicator in your community.

Credit for taking this course is available through the Centers for Disease Control and Prevention.

ASPH **CDC** **UIC** **PHTN**


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The School of Public Health at the University of Illinois at Chicago

Site development by [cade](#)

Short Courses on the Web

- Health Effects of Water Pollution
- American College of Preventive Medicine
- 22 credit module
- www.waterhealthconnection.org

Recognizing Waterborne Disease
And The Health Effects of Water Pollution



Physician On-line Reference Guide
On-line Continuing Medical Education Credits (CME) - Max. 22 Credit Hours

Sponsored By:
ACPM American College of Preventive Medicine



Academic Short Courses

- University of Illinois School of Public Health
- Principles of Environmental Health Sciences
- Online course
- Piloted this year for international trainees with WHO



Online Degree/Certificate Programs

- Barton Community College
 - Associate in applied science (haz mat management)
- Columbia Southern University
 - B.S. in occupational safety and health
 - M.S. in occupational safety and health
 - Certificate in ergonomic compliance
 - Certificate in industrial hygiene management



Online Degree/Certificate Programs in Occupational Health

- Community Colleges of Colorado
 - A.A.S. in occupational safety
- East Carolina University
 - B.S. in industrial technology transfer
- Eastern Kentucky University
 - M.S. in loss prevention and safety
- Indiana University of Pennsylvania
 - Certificate of recognition in safety sciences



Online Degree/Certificate Programs in Occupational Health

- Tulane University
 - M.P.H. in occupational safety and health management
 - M.P.H. in occupational health
 - M.S. in public health in industrial hygiene
- University of Connecticut
 - Certificate in occupational safety and health
- University of New Brunswick (Canada)
 - Certificate in health, safety, and environmental processes



Online Degree/Certificate Programs in Occupational Health

- University of Manchester, UK
 - Center for Occupational and Environmental Health
 - On-line diploma in occupational health-medicine and hygiene
 - www.coeh.man.ac.uk/



Barriers

- Language
- Cost
- Copyright
- Time
(Synchronous vs Asynchronous time)
- Difficult if paced learning
- Bandwidth
- Printing capability
- Variable quality
- Rapidly evolving

CCOH Opportunities

- Portals
- Forums
- Electronic libraries
- Donations of CCOH-developed materials to a WHO-OH electronic library
- Adding trainees to ongoing courses
- Certificates

