



Preventing Catastrophes in Confined Spaces

May 3 & 4, 2010

Vancouver Marriott Pinnacle Downtown Hotel
1128 West Hastings Street, Vancouver, BC

Co-sponsored by



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OVERVIEW

Without the proper understanding and precautions working inside a confined space can be extremely hazardous, as recent tragic events have demonstrated. In British Columbia, a number of high-profile multiple fatalities associated with confined spaces have made headlines in recent years. Sadly, confined space related catastrophic outcomes are not uncommon in other parts of the world.

Anticipating, recognizing and evaluating hazards in a confined space are key to controlling the risks to workers. Not every confined space is necessarily a high-hazard work environment. However, failure to anticipate and recognize the unique environment of the space, and the associated hazards of work inside the space could potentially result in an IDLH (immediately dangerous to life and health) condition, placing workers and rescuers at risk.

This seminar is an advanced-level course that will help occupational and environmental health and safety professionals, industrial hygienists, supervisors, confined space entry program managers and coordinators be better equipped to recognize, identify, understand critical operating procedures. The seminar will cover atmospheric monitoring and the use of engineering controls to eliminate and/or reduce the risks associated with confined space work. A panel of subject matter experts will lead two days of thought-provoking and stimulating discussion of ideas and best practices on preventing catastrophes in confined spaces and in dealing with challenges associated with risks of confined space work.

The two-day program includes breakout sessions to allow participants to examine applications in two industrial settings and to further explore, interact and solve issues pertaining to sampling and ventilation requirements in different work settings.

The seminar also features an introduction to the new CSA Standard Z1006, Management of Work in Confined Spaces. A CSA committee member will explain how this standard overlays BC regulation, including a discussion of implementing the standard to ensure compliance with regulatory requirements. Recent multiple fatalities in confined spaces in British Columbia will be discussed, as will rescue and its proper assessment and preparation to ensure the health and safety of all involved.

Learning Objectives

This seminar will help participants play a key role in planning and monitoring confined space work for safety and high productivity. Participants will be able to:

- Anticipate and recognize hazards of confined space entry work
- Understand the criteria for designating a space as a “confined space”
- Assess the risks associated with confined space entry
- Understand and apply the regulations governing confined space entry work
- Identify the key elements of the new CSA Standard on confined space entry
- Develop controls to eliminate or minimize the hazards and risks of confined space entry
- Understand and apply ventilation controls in confined space entry
- Review lessons learned from real-life examples of confined space incidents, in order to prevent catastrophes in confined space entry in the future
- Understand the responsibility to provide rescue and technical aspects of rescue operations

SPEAKERS

Opening remarks by

Diana Miles

Vice-President, Worker and Employer Services Division, WorkSafeBC

Course Faculty

Stephanie R. Carter PhD, CIH

Faculty (Part-time), Lake Washington Technical College, WA

Ed Chessor, CIH, P.Eng.

Industrial Ventilation Engineer, Adjunct Faculty, UBC School of Environmental Health, BC

Geoffrey Clark, MSc, CIH, ROH

Senior Occupational Hygienist, Prevention and Occupational Disease Initiatives, Worker and Employer Services, WorkSafeBC

Marshall Denhoff, MSc, CIH, ROH, CSP

Director, Environment, Health and Safety, University of Calgary, AB

Peter Gilmour, CRSP, CIH

Regional Prevention Manager, Interior/North Region, Worker and Employer Services Division, WorkSafeBC

Al Hoffman

Chief Inspector of Mines, BC Ministry of Energy, Mines and Petroleum Resources

John Kenyon

Director, Dynamic Rescue Systems, BC

Nela Walter, MSc

Occupational Hygienist, Metro Vancouver, BC

Course Topics

Monday May 3, 2010

- Recent catastrophic incidents
 - Recent deaths in BC confined spaces – what are we doing about it?
 - The Sullivan Mine Tragedy – A regulator’s point of view
- Hazards in confined spaces
 - Atmospheric hazards
 - Physical, biological, chemical hazards
 - Hazardous energy

Breakout Sessions: Case illustrations by industry sectors

- Applications in heavy industry
- Applications in municipalities

Tuesday May 4, 2010

- CSA Z1006: Management of Work in Confined Spaces – Implementation in a Regulated Environment
- Hazards control
 - Isolation of energy
 - Ventilation: ventilation system and equipment
- Confined space rescue: managing the risks

Breakout Sessions: Ventilation calculations

- Ventilation for abrasive blasting and painting in confined spaces
- Ventilation for welding and cutting in confined spaces

Exhibition

There will be exhibits of instrumentation and equipment vendors who will show their latest innovations, products and services. Exhibitor listing is shown in the course website http://www.soeh.ubc.ca/Continuing_Education.

Who Should Attend

This course is aimed at industrial hygienists, environmental and occupational health and safety professionals, managers, supervisors, engineers, and others with responsibility for carrying out risk assessments prior to permitting entry into confined spaces.

For Course Inquiries, please contact Course Coordinator:

Lydia Ma, MSc, PhD

Director, Continuing Education & Outreach
UBC School of Environmental Health, BC

Phone: (604) 822-9599

Email: lydia.ma@ubc.ca

Web : http://www.soeh.ubc.ca/Continuing_Education

VENUE & ACCOMMODATIONS

The Vancouver Marriott Pinnacle Downtown is a 4 AAA Diamond hotel and is steps away from scenic Coal Harbour, the award-winning new Vancouver Convention Centre and the Canada Place Cruise Ship Terminal. The hotel is within walking distance to the central business district, Gastown, Robson Street, Pacific Center shopping mall, and the Vancouver Art Gallery.

Vancouver Marriott Pinnacle Downtown (venue hotel)

A block of rooms has been set aside for our event at a special daily rate of CAD219.00 per room, plus applicable taxes. This rate is available three days pre- and three days post-event, until April 2, 2010, subject to availability. Reservations for rooms are to be made directly through Marriott reservations at 1-800-207-4150 or (604) 684-1128 and book under room code **UBC School of Environmental Health**. All reservations must be accompanied by a first night room deposit or guaranteed with a major credit card. Hotel will not hold any reservations unless secured by the above method.

Carmana Plaza

1128 Alberni Street, Vancouver, BC

Carmana Plaza is centrally located in Downtown Vancouver near Robson Street. Over 50 restaurants/cafes are within a 2 block radius and a gourmet grocery is across the street. It is a short four-block walk to the course venue.

Standard and Executive 1- or 2-bedroom suites are available at special daily rates starting from CAD165.00, plus applicable taxes. Please refer to room types in website www.carmanaplaza.com. Special rates are available only through reservations made by phone (604) 683-1399 (1-877-686-9988 within North America) or by email (reservation@carmanaplaza.com), under group code **UBC School of Environmental Health**.

Registration Information

Date: May 3 & 4, 2010
Location: Vancouver Marriott Pinnacle Downtown
1128 W. Hastings Street
Vancouver, BC

Course Duration: 8:30 am – 4:30 pm

Delegate check-in begins at 7:30 am on Monday May 3, 2010

Course Fee:

On or before April 16, 2010 \$450
Full-time students* \$195

After April 16, 2010 \$500
Full-time students* \$225

Registration fee is GST exempt and include lunches, refreshment breaks and course material.

* Acceptable proof is a confirmation of enrollment issued by an academic institution showing full-time status. A student ID card is not acceptable as proof.

REGISTER AT:

www.eplyevents.com/ubcsoeh2010

IMPORTANT:

Please bring a scientific calculator on May 4, 2010 for breakout sessions involving participants in exercises with ventilation calculations.

Certification Maintenance

American Board of Industrial Hygiene (ABIH): 2 IH CM points; CM Approval Number pending

Canadian Registration Board of Occupational Hygienist (CRBOH): 2 Registration Maintenance Points; Award #2010-67

Board of Canadian Registered Safety Professionals (BCRSP): Approval pending

Please visit http://www.soeh.ubc.ca/Continuing_Education for updates on certification maintenance approvals.

Cancellation Policy

Cancellation and delegate substitution must be notified in writing. Refunds, less a cancellation fee of CAN\$100, will be issued up to 10 business days prior to the start of the course (April 16, 2010). All cancellations received thereafter are non-refundable (no exceptions). Participant substitutions are permitted with 48-hour notice without additional fee. The UBC School of Environmental Health reserves the right to cancel this seminar or substitute speakers as necessary. If the course is cancelled for any reason, UBC assumes liability limited to a refund of the course registration fee paid only.

EXHIBITORS (in alphabetical order):



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3M Nederman