

# INDUSTRIAL HYGIENE TRAINING COURSE

## W-505: CONTROL OF HAZARDOUS SUBSTANCES

### 2012 North American Calendar



The aim of the course is to describe the ways in which exposure to hazardous substances occur in the workplace, and to introduce the method and technologies available to control exposures, thereby reducing risks to health.

#### LEARNING OBJECTIVES:

- Describe how airborne contaminants are generated under various workplace conditions and related processes
- Understand the impacts on the control strategy
- Develop optimized control strategies
- Carry out measurements to assess local exhaust ventilation systems
- Take a holistic approach to the design of control solutions

#### UPON COMPLETION:

- Participants receive a "Certificate of Completion" from Golder upon completion of the course and will receive a certificate from the BOHS after passing the exam
- Participants earn 40 contact hours of formal Industrial Hygiene training towards qualification to sit for the Certified Industrial Hygienist (CIH) exam
- Other local and national accrediting associations have awarded professional maintenance points for this course

#### ABOUT THE CERTIFICATION PROGRAM

The Occupational Hygiene Training Association (OHTA) has begun offering an internationally recognized Industrial Hygiene Certification Program. The program is recognized by The International Occupational Hygiene Association (IOHA) and by its various member organisations. There are seven different five-day training modules. Upon completing any of the modules, participants will receive an internationally recognized certification recognizing competence in the module topic. Certification is available in each of the seven different module topics.

*In 2011, the Environmental Business Journal recognized Golder's Occupational Hygiene Training Courses as an Industry Leader for training over 300 industrial hygiene practitioners.*



# COURSE SCHEDULES

## OTTAWA, ON, CANADA

APRIL 16 - 20

**VENUE:** The Brookstreet Hotel – Traders Room 525 Legget Drive Kanata, ON K2K 2W2 [www.brookstreet.ca](http://www.brookstreet.ca)

**INSTRUCTORS:** James Crichton and Nancy Wilk

**COST:** \$850 CDN plus HST. This cost includes the BOHS examination fee.

**TO REGISTER CONTACT:** Stephanie Vista [svista@golder.com](mailto:svista@golder.com) or 905 567 6100, Ext. 1423

## LONDON, ON, CANADA

JUNE 4 - 8

**VENUE:** Golder Associates London Office

**ADDRESS:** 309 Exeter Road, Unit #1, London, ON N6L 1C1

**INSTRUCTORS:** James Crichton, Nancy Wilk and Rob Stoyanoff

**COST:** \$850 CDN plus HST. This cost includes the BOHS examination fee.

**TO REGISTER CONTACT:** Stephanie Vista [svista@golder.com](mailto:svista@golder.com) or 905 567 6100, Ext. 1423

## DENVER, CO, USA

OCTOBER 15 - 19

**VENUE:** Golder Associates Lakewood

**ADDRESS:** 44 Union Boulevard, Suite 300 Lakewood, CO 80228 (6th Floor Meeting Room)

**INSTRUCTORS:** Angela Dartt and Kathy Norton

**COST:** \$850 USD. This cost includes the BOHS examination fee.

**TO REGISTER CONTACT:** Cyndie Marshall [cjmarshall@golder.com](mailto:cjmarshall@golder.com) or 720 920 4548

*10% discount for companies registering multiple participants under a single registration (discount does not apply to exam fee).*

## GOLDER FACULTY



### JAMES CRICHTON, B.SC., CIH

James Crichton is a Certified Industrial Hygienist leading the Industrial Hygiene Group in Ottawa and Eastern Ontario. Mr. Crichton has over 10 years experience in manufacturing and building environments managing industrial hygiene worker assessments for multinational clients. Specialties include qualitative risk assessments, quantitative industrial hygiene surveys and worker training.



### DR. ANGELA DARTT, PHD, CIH, AEP

Dr. Angela Dartt is a Certified Industrial Hygienist (CIH) and Industrial Hygiene/Ergonomics consultant at the Golder Fort Collins/Denver office with over 8 years of occupational safety and health experience with specialised experience in industrial hygiene, ergonomics, and safety in manufacturing, construction, oil and gas, mining and the government sector. She is currently the International Affairs Director for the American Industrial Hygiene Association Rocky Mountain Section (AIHA-RMS) and a member of the AIHA Ergonomics Committee.



### KATHY NORTON, CIH

Kathy Norton is a Senior EHS Consultant and the Office Manager at Golder Associates' Irvine, California office. Kathy has 20 years of experience in the Occupational and Environmental Health and Safety field. Prior to joining Golder, she worked in EHS roles in manufacturing and at a major EHS consulting firm. Kathy recently served as President of the Orange County California Section of AIHA (American Industrial Hygiene Association).



### ROB STOYANOFF, CIH

Robert Stoyanoff is a Senior Industrial Hygienist with Golder's Environmental Health and Safety Group in Mississauga, Ontario. He is a Certified Industrial Hygienist with over 25 years of professional experience, predominantly in the identification, assessment and control of chemical, physical and biological agents in the workplace. In addition to his consulting activities at Golder, Robert is also an instructor in industrial hygiene studies at the Chang School of Continuing Education at Ryerson University in Toronto, Ontario.



### NANCY WILK, HBSC, MHSC, CIH

Nancy Wilk is an Associate and Senior Practice Leader in Industrial Hygiene. Nancy has 25 years experience in the comprehensive practice of industrial hygiene and occupational health and safety. Nancy is a Certified Industrial Hygienist (CIH) and holds a Masters degree in industrial hygiene through the Faculty of Medicine at the University of Toronto. She is author of a number of professional articles on industrial hygiene-related topics including cancer in the steel industry, regularly speaks at professional industrial hygiene and health and safety conferences and currently instructs a university-level course in Environmental Health and Safety.



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# INDUSTRIAL HYGIENE TRAINING COURSE

## W-505: CONTROL OF HAZARDOUS SUBSTANCES

DAY	TIME	TOPIC
DAY 1	0830 – 0930	Introductions and Course Overview
	0930 – 1030	Workplace Control Principles <ul style="list-style-type: none"> <li>■ Control challenges</li> <li>■ Hierarchy of control</li> </ul>
	1030 – 1100	Coffee Break
	1100 – 1230	Designing Control Strategies <ul style="list-style-type: none"> <li>■ Identifying sources of exposure</li> <li>■ Determining the degree of control required</li> <li>■ Deciding on control options</li> </ul>
	1230 – 1330	Lunch Break
	1330 – 1500	Understanding Sources of Contaminants and Process Design and Principles
	1500 – 1530	Coffee Break
	1530 – 1700	COSHH Essentials Exercise
DAY 2	0830 – 0900	Review of Overnight Questions
	0900 – 1030	Ventilation Systems <ul style="list-style-type: none"> <li>■ Types of ventilation</li> <li>■ Basic principles</li> </ul>
	1030 – 1100	Coffee Break
	1100 – 1230	Ventilation Systems Cont'd <ul style="list-style-type: none"> <li>■ Local exhaust ventilation</li> <li>■ Components</li> <li>■ Hood design</li> <li>■ Measurement</li> <li>■ Limitations</li> </ul>
	1230 – 1330	Lunch Break
	1330 – 1500	Ventilation Systems Cont'd <ul style="list-style-type: none"> <li>■ General ventilation</li> <li>■ Dilution ventilation</li> <li>■ Applications and Limitations</li> </ul>
	1500 – 1530	Coffee Break
	1530 – 1700	Ventilation Systems Group Exercise
DAY 3	0830 – 0900	Review of Overnight Questions
	0900 – 1030	Principles of Containment <ul style="list-style-type: none"> <li>■ Types of containment</li> <li>■ Design of containment systems</li> <li>■ Testing and validation</li> </ul>
	1030 – 1100	Coffee Break
	1100 – 1230	Personal Protective Equipment <ul style="list-style-type: none"> <li>■ Respiratory protection</li> <li>■ Chemical protective clothing</li> <li>■ Gloves and dermal care</li> <li>■ Eye and face protection</li> </ul>
	1230 – 1330	Lunch Break
		<i>See next page for continuation</i>

# AGENDA

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DAY	TIME	TOPIC
DAY 3 Cont'd	1330 – 1430	Administrative Elements <ul style="list-style-type: none"> <li>■ Scheduling of work</li> <li>■ Operating procedures</li> <li>■ Training</li> </ul>
	1430 – 1500	Practical Applications of Control Strategies
	1500 – 1530	Coffee Break
	1530 – 1700	Practical Applications of Control Strategies Cont'd
DAY 4	0830 – 0900	Review of Overnight Questions
	0900 – 1030	Student Practical Exercises
	1030 – 1100	Coffee Break
	1100 – 1230	Student Practical Exercises Cont'd
	1230 – 1330	Lunch Break
	1330 – 1500	Student Practical Exercises Cont'd and Calculation Exercises
	1500 – 1530	Coffee Break
1530 – 1700	Calculation Exercises Cont'd and Mock Examination	
DAY 5	0830 – 0900	Review of Mock Examination
	0900 – 1030	Case Studies Group Exercise
	1030 – 1100	Coffee Break
	1100 – 1230	Case Studies Group Exercise
	1230 – 1330	Lunch Break
	1330 – 1545	Write-Up of Practical Exercises
1545 – 1630	Course Review	

**AGENDA Cont'd**