

Occupational Hygiene Training Association (OHTA)

# INDUSTRIAL HYGIENE TRAINING COURSE

Guangzhou, China  
22-26 October, 2012



## W-505 CONTROL OF HAZARDOUS SUBSTANCES 化学物职业健康危害控制

### DATE

22 OCTOBER – 26 OCTOBER 2012

### VENUE

RAMADA PEARL HOTEL GUANGZHOU,  
9 MINGYUE YI ROAD,  
GUANGZHOU MAIN ROAD CENTRAL,  
GUANGZHOU



### PRICE

CNY 6,980 /USD 1,090  
(FEE INCLUDES TUITION, PRINTED  
MATERIALS, EXAM/CERTIFICATE FEE OF  
USD150, LUNCHES AND REFRESHMENTS)

### LANGUAGE

CHINESE & ENGLISH

### HOST BY

GOLDER ASSOCIATES CONSULTING  
LIMITED

日期:2012年10月22-26日

地点:广州凯旋华美达大酒店, 广州市东山区明月一路九号

价格:人民币6,980/位(费用包括培训费, 材料费, 考试及证书费用人民币950/美元150, 5天的午餐和茶歇)

语言:中文和英文

组织:高达(上海)工程咨询有限公司

The aim of the course is to introduce the methodologies and technologies available to control exposures and thereby reduce risks to health.

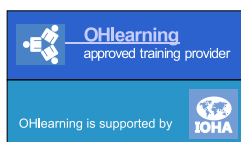
介绍化学物职业健康危害的控制方法和技术



Golder Associates is a global firm providing ground engineering and environmental, health, and safety services. In Asia, we provide some of the most comprehensive Industrial Hygiene training available.

Golder Associates is an OHTA- approved training provider.

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



# INDUSTRIAL HYGIENE TRAINING COURSE

## W-505 CONTROL OF HAZARDOUS SUBSTANCES

### DESCRIPTION

The aim of the course is to describe the ways in which exposure to hazardous substances arises in the work place, and to introduce the methodologies and technologies available to control exposures and thereby reduce risks to health.

### LEARNING

- Describe how airborne contaminants are generated by industrial processes
- Understand how this impacts the control strategy
- Develop optimized control strategies
- Carry out measurements to assess the local exhaust ventilation systems
- Take a holistic approach to the design of control solutions.

### UPON COMPLETION

- All participants receive a "Certificate of Completion" from Golder upon completion of the course (regardless of completion of the BOHS examination).
- Participants will receive a certificate from the BOHS after passing the exam.
- Participants will 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 points for this course.

### 课程概述：

W505模块着力于介绍现场工作中几种有害物质的暴露途径并介绍化学物职业健康危害的控制方法和技术。

### 学习成果：

- 认识工业过程中化学性职业危害的来源。
- 对其制定控制策略的影响。
- 开发优化控制方法。
- 掌握通风系统的检测与效果评估。
- 全面考虑控制措施的设计和实施。

### 课程收获：

- 完成课程的参加者可获得高达公司颁发的证书。（无需参加BOHS考试）
- 完成课程并通过考试后，参加者将获得由“英国职业卫生学会BOHS”颁发的证书。
- 准备参加CIH（美国注册工业卫生师）考试的人士可以获得40小时IH专业学时，将有助于获得CIH考试资格。
- 其他的工业卫生人员资质认证机构同样认同此门课程所获得的学分。



### BONUS SESSION INCLUDED - OCTOBER 26

A 2-HR ethics training will be provided by Dr. Jas Singh, CIH for attendees taking the Certified Industrial Hygienist (CIH) exam by (American Board of Industrial Hygiene (ABIH)). **This training is mandatory for CIH examination eligibility.**

### 特别收获：

根据美国工业卫生学会ABIH的最新要求，计划参加CIH考试的学员必须具备两小时的IH职业伦理(IH ETHICS)培训。高达公司资深顾问JAS SINGH博士将在本课程期间进行2小时IH伦理培训。此培训仅面向课程参加者，且不额外收取费用。



# INDUSTRIAL HYGIENE TRAINING COURSE W-505 CONTROL OF HAZARDOUS SUBSTANCES

## COURSE AGENDA “化学物职业健康危害控制” 课程大纲

22 - OCTOBER	23 - OCTOBER	24 - OCTOBER	25 - OCTOBER	26 - OCTOBER
<b>Introductions</b> Course Overview 课程概述  <b>Workplace Control Principles</b> 控制原理 <ul style="list-style-type: none"> <li>Control Challenges</li> <li>Hierarchy of Controls</li> </ul>	Review of Overnight Questions 课后作业回顾  Ventilation Systems 通风系统 <ul style="list-style-type: none"> <li>Types of Ventilation</li> <li>Basic Principles</li> </ul>	Review of Overnight Questions 课后作业回顾  Principles of Containment 密闭方法 <ul style="list-style-type: none"> <li>Types of Containment</li> <li>Design of Containment Systems</li> <li>Testing &amp; Validation</li> </ul>	Review of Overnight Questions 课后作业回顾  Student Practical Exercises 案例分析与操作	Review of Mock Examination 模拟考试回顾  Case Studies (Group Exercise) 案例分析
<b>COFFEE</b>				
<b>Designing Control Strategies</b> 设计控制策略 <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>	Ventilation Systems (cont) 通风系统 (局部通风) <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>	Personal Protective Equipment 个人防护用品 <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>	Student Practical Exercises (cont) 案例分析与操作	Case Studies (Group Exercise) 案例分析
<b>LUNCH</b>				
<b>Understanding Sources of Contaminants</b> 危害来源  <b>Process Design &amp; Principles</b> 工艺设计原理 <ul style="list-style-type: none"> <li>Design of Equipment and Workplace Layout</li> </ul>	Ventilation Systems (cont) 通风系统 (稀释通风) <ul style="list-style-type: none"> <li>General Ventilation</li> <li>Dilution Ventilation</li> <li>Application and Limitations</li> </ul>	Administrative Elements 管理控制 <ul style="list-style-type: none"> <li>Scheduling of Work</li> <li>Operating Procedures</li> <li>Training</li> </ul> Practical Applications of Control Strategies (case studies) 控制策略实际应用案例	Student Practical Exercises (cont) 案例分析与操作  Calculation Exercises 计算练习	Write up of Practical Exercise 案例分析小结  Course Review 课程回顾
<b>COFFEE</b>				
COSHH Essentials Exercise (Group Exercise) 风险评估练习	Ventilation Systems (Group Exercise) 通风系统练习	Practical Applications of Control Strategies (cont) 控制策略实际应用案例	Calculation Exercises (cont) 计算练习	Exam 考试
Overnight Questions 课后作业	Overnight Questions 课后作业	Overnight Questions 课后作业	Mock Examination 模拟考试	Course Ends 课程结束



### 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.

for more information visit [www.ohlearning.com](http://www.ohlearning.com)

# INDUSTRIAL HYGIENE TRAINING COURSE W-505 CONTROL OF HAZARDOUS SUBSTANCES



## **DR. JAS SINGH, CIH** **INSTRUCTOR, GOLDER IH COURSE DIRECTOR**

Dr. Jas Singh has over 30 years of experience providing Industrial Hygiene consulting to Governmental, Industrial and Institutional organizations in the USA and abroad. Dr. Singh has served on the Board of Directors of the American Industrial Hygiene Association (AIHA) as well as on the Board of the American Board of Industrial Hygiene (ABIH). He was the past President of the Academy of Industrial Hygiene (AIH).

### **高达工业卫生课程总监**

Jas Singh 博士, CIH, 国际知名的工业卫生专家。作为高达公司的高级顾问, 他拥有30多年的工业卫生相关经验, 曾为美国及其他国家多个政府机构、企业、组织提供专业咨询服务。Singh博士曾担任美国工业卫生协会(AIHA)理事和美国工业卫生学会(ABIH)理事。2005年, 鉴于他在工业卫生领域作出的杰出贡献, Singh博士获得美国工业卫生学院(AIH)颁发的“Henry Smyth”奖项, 同年获得AIHA颁发的“杰出贡献奖”。他是AIH的上一任主席。Singh 博士在中国具有丰富的工业卫生项目和培训经验。



## **WILLIAM ZHU, CIH** **INSTRUCTOR**

Mr. Zhu is Senior IH Consultant at Golder Shanghai office. He has conducted a number of IH assessments, audits and training for multinational clients in China. Mr. Zhu was profiled in the AIHA Synergist. He holds a master degree in occupational health from Fudan University.

### **高级工业卫生顾问**

朱先生是高达公司工业卫生高级顾问。他为众多跨国企业提供工业卫生评估、审核、培训、咨询、支持服务。具有公共卫生执业医师资格, 是医学学士、职业卫生硕士。朱先生具有丰富的石棉项目经验。



## **MAGGIE ZHU, CIH** **INSTRUCTOR**

Ms. Zhu is Senior IH Consultant at Golder Shanghai. She has extensive experiences in IH assessments, audits and training. She is familiar with Chinese regulatory requirements and professional guidelines. Ms. Zhu holds a master degree in occupational health from Fudan University.

### **工业卫生顾问**

朱女士是注册工业卫生师(CIH), 高达高级工业卫生顾问, 职业卫生硕士。她在职业危害识别、风险评估和控制、工效学等方面具有丰富经验。她曾经参与国家职业卫生标准的起草, 熟悉国内法规和专业规范。



## **VINCENT ZHANG, CIH** **INSTRUCTOR**

Mr. Zhang has conducted a variety of industrial hygiene projects for multinational clients in China. Before joining Golder he worked at local CDC. He has a bachelor degree in Preventive Medicine from Fudan University.

### **工业卫生顾问**

张先生是注册工业卫生师(CIH), 高达公司工业卫生顾问, 预防医学学士。他为众多跨国公司提供工业卫生服务, 具有丰富的石棉项目经验。他曾在疾控中心工作五年。他在美国接受石棉培训并获得注册石棉承包商/监督员专业资质。





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GUANGZHOU



### REGISTRATION

For course registration information and listing of local recommended hotels in the area, please contact Polly Li.

To register for this course email or fax the form below to **Polly Li**

Email: [PLi@golder.com](mailto:PLi@golder.com)



Telephone: [+86] (21) 6258 5522 ext. 105

Fax: +86 21-5213 2052



# DELEGATES BOOKING FORM

## YOUR DETAILS

Title	First name	Surname
Company		
Job title		
Email		
Postal address (including country)		

### COURSE FEE

**CNY 6,980 /USD 1,090**

EXAM/CERTIFICATE FEE INCLUDED  
LUNCH AND TEA BREAKS ARE INCLUDED  
PRINTED MATERIALS ARE INCLUDED  
LANGUAGE: CHINESE & ENGLISH

- REGISTER ADDITIONAL DELEGATES FROM YOUR COMPANY TO RECEIVE 10% DISCOUNT OFF THE COURSE FEE.  
同一公司两人或以上报名同一课程, 可享10%优惠, 或;
- REGISTER ONE MONTH IN ADVANCE TO RECEIVE 10% DISCOUNT OFF THE COURSE FEE.  
在截止日期前一个月报名, 可享10%优惠, 或;
- REGISTER PAST ATTENDEES OF GOLDER IH TRAINING COURSES TO RECEIVE 10% DISCOUNT OFF THE COURSE FEE.  
曾有参与过高达其他IH培训, 可享10%优惠。  
(discounts do not apply to exam fee, 考试费用不计算在优惠中。)

### PAY BY CASH OR BANK TRANSFER:

ACCOUNT 账户: 高达(上海)工程咨询有限公司

BANK 银行: 汇丰银行上海分行

RMB ACCOUNT NO. 人民币账号: 721073328001

ADDRESS 地址: 上海市南京西路555号301室

ADDRESS OF BANK 银行地址: 上海市浦东新区银城东路101号汇丰大厦底楼

US \$ ACCOUNT NO. 美元账号: 101-073328-056

## CLOSING DATE FOR REGISTRATION OCTOBER 15, 2012

A receipt will be issued upon receipt of booking form and full payment.



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