

Continuing Education for Chemical Professionals



The Chemical Institute of Canada (CIC), the CIC Edmonton Local Section, and the Association of the Chemical Profession of Alberta (ACPA) are presenting the following course designed to enhance the knowledge and working experience of safety, environmental and process safety professionals.

Professional Development

Risk Assessment and Management for Continuous Improvement

May 15–16, 2006

The Westin Edmonton
10135 100th Street
Edmonton, AB
T5J 0N7

Registration fees

\$695 CIC/ACPA members
\$850 non-members

Registration form and hotel information

www.cheminst.ca/profdev

This two-day course is geared to those whose responsibilities include risk assessments, development of management systems, and providing advice to decision makers. The learning objective is to reach a thorough understanding of integrated risk assessment and management principles and techniques. During the course, participants are provided with a broad overview of the technical tools available to assess risk in industrial environments as well as how these tools fit in the bigger picture of the broader risk management systems to control risk.

Elements of the course

- Introduction
- Major Historical Accidents in Process Industries
- Risk Concepts, How to Estimate Risk and Evaluate its Acceptability
- Integrated Risk Management: Success Factors for High Performance
- The Risk Management Process
- Techniques for Risk Analysis
- Qualitative Techniques: Hazard Identification (Screening Level, What-if, HAZOP, FMEA) with hands-on application examples
- Practical Hazard Awareness in Operating Plants
- Index Methods
- Frequency Analysis Techniques (Fault and Event Trees), SVA, LOPA
- Consequence Analysis Methods for Hazards Associated with Hazardous Materials (with reference to US EPA Risk Management Program Rule)
- Applications to Plant Layout Design
- Elements of Process Safety Management (with reference to US OSHA PSM Regulations)

- Emergency Management (with reference to Environment Canada and other Canadian Legislation)
- Summary and Conclusions

Recommended for

Industry and government personnel who have responsibilities in:

- Safety, Health and Environment
- Worksite safety
- Asset Management
- Operations Management
- Process Safety and Loss Prevention
- Risk Management
- Security and Emergency Response

Course leaders

Ertugrul Alp, PhD, PEng, MCIC, Principal, Alp & Associates Incorporated, has over 20 years' experience in assessment and management of risks to environment, health, safety, property and reputation. His experience covers a number of industrial sectors, including chemical, energy, pulp and paper, mining, steel, and transportation, and government sectors such as labour, environment, health, natural resources, and municipal planning.

Norman Nibber, PhD, Director, Independent Risk Control Inc., has 20 years' experience in energy industries including: chemicals production, chemical process development and design, process safety and risk consulting. His experience covers a number of industrial sectors including heavy and conventional oil production, refining, gas production and processing, straddle and fractionation plants, LPG, olefins, polyolefins, styrene, polystyrene, methanol, pulp and paper, chloro-alkali, vinyl monomer, and ethylene oxide.

Professional Development Courses

May 15–16, 2006 Edmonton, Alberta

REGISTRATION FORM

Discount

Registration covers all program materials, refreshments during breaks and lunch but excludes accommodation. For organizations sending more than one participant, a 10 percent discount to the fee applies to the second and subsequent registrations.

Cancellations

To cancel you must send your request in writing to our office.

Fifteen or more business days in advance: full refund less \$50 administration charge.

In case of an unexpected event occurring after this time, you may send someone else to take your place without any additional cost. The CIC reserves the right to cancel or change the date or location of its events. The CIC's responsibility will under no circumstances exceed the amount of the collected fee.

Contact information

Michelle Moulton
The Chemical Institute of Canada
Toll-free 1-888-542-2242
E-mail profdev@cheminst.ca
www.cheminst.ca/profdev

Mail or fax completed form
with payment to:

CIC/Risk Assessment and Management for
Continual Improvement course
130 Slater Street, Suite 550
Ottawa, Ontario K1P 6E2
Tel. (613) 232-6252
Fax (613) 232-5862

Yes, register me now for

Risk Assessment and Management for Continuous Improvement

Please list additional names on separate copies made from this registration form.

Name _____

Position _____

Company/organization _____

Nature of business _____

Address _____

City _____ Province _____ Postal code _____

Tel. (business) _____ (residence) _____

Please provide both business and residence telephone numbers in case of changes.

Fax _____ E-mail _____

Tax information

If you are tax-exempt, enter your tax-exempt number in the space below and attach a copy of your tax-exempt certificate.

Exempt no. _____

Payment method

Payment must be received before course start date. Registration fees are \$695 for CIC/ACPA members, and \$850 for non-members, plus 7% GST.

Membership no. _____ Organization _____

Tuition (CDN funds) \$ _____

Plus 7% GST (GST no. 108076431) \$ _____

Total amount due \$ _____

Charge to: MasterCard VISA Amex

Card number _____ Expiry date _____

Cardholder's Name _____

Authorized signature _____

Certified/company cheque or money order no. _____

Payable to The Chemical Institute of Canada