

# TRINITY CONSULTANTS TRAINING

ENVIRONMENTAL COURSES FOR INDUSTRIAL PROFESSIONALS / JANUARY - JULY 2003

TAKING YOU BELOW THE SURFACE...



**INTO THE DEPTHS  
OF KNOWLEDGE.**

### Introduction to Air Quality Regulations—\$399

If you are new to air quality or need a solid foundation on the air quality issues affecting your operations, don't miss this introduction to all major air programs. Emerging and evolving Title V and MACT regulations and issues will be a major focus of this course.

- Title V operating permits
- Basic requirements of the Clean Air Act
- National Emissions Standards for Hazardous Air Pollutants (NESHAPs/MACT)
- New Source Review and Prevention of Significant Deterioration (NSR/PSD)
- Best Available Control Technology (BACT)
- New Source Performance Standards (NSPS)
- EPA terminology and acronyms in air quality regulations
- Update on evolving federal air quality regulations

Houston, TX	February 18
Chicago, IL	April 1
Orlando, FL	June 11

### NSR/PSD Compliance Workshop—\$999

Receive in-depth instruction on federal New Source Review (NSR) Prevention of Significant Deterioration (PSD) and nonattainment area requirements, including extensive industry examples. This course is always up-to-date with the latest federal developments, including NSR Reform and U.S. EPA enforcement initiatives.

- Key terms and concepts
- PSD applicability
- Netting analysis
- Recent U.S. EPA interpretations and precedent
- Overview of dispersion modeling and BACT analysis
- Advanced NSR topics
- Current U.S. EPA enforcement initiatives

Houston, TX	February 19-20
Chicago, IL	April 2-3
Orlando, FL	June 12-13

**Take Introduction to Air Quality & NSR/PSD for \$1,200**

### NPDES Permitting—\$399

This one-day course provides an overview of the Clean Water Act (CWA) and the National Pollutant Discharge Elimination System (NPDES). Several NPDES permit types such as storm water, industrial wastewater, and POTW pre-treatment are covered. Discussions include storm water pollution prevention plans, spill prevention, and other water-related regulations. This course offers an introduction to water permitting and provides information to assist environmental personnel in developing permitting strategies.

Los Angeles, CA	January 22
Houston, TX	March 13
Baltimore, MD	May 28
Charlotte, NC	July 23

### Introduction to Environmental Regulations—\$699

This two-day course is designed for new or experienced environmental personnel interested in developing a broader understanding of all environmental media. This course provides an introduction to the Clean Air Act, Clean Water Act, and Resource Conservation and Recovery Act as they relate to industrial facilities. Permitting examples, compliance management techniques, and information on performing compliance audits are also included.

Houston, TX	February 4-5
Chicago, IL	June 17-18

### Introduction to Health & Safety Issues—\$399

This one-day companion course to *Introduction to Environmental Regulations* is designed for EH&S professionals seeking an overview of safety and health regulations and requirements.

- OSHA recordkeeping and incident rate calculations
- Process safety management requirements
- "Life critical" safety requirements such as lockout/tagout, confined space, and respiratory protection
- Hazardous communication requirements
- Strategies for industrial hygiene monitoring and compliance

Houston, TX	February 6
Chicago, IL	June 19

### **NEW!** MACT Hammer—Section 112(j) Workshop—\$199

EPA and the Sierra Club reached a proposed legal settlement that will require many industries to submit detailed MACT Part 2 permit applications 12 months after subject facilities submitted Part 1 applications. For industries without a promulgated MACT standard prior to the Part 2 submittal date, a Part 2 application will have to be submitted to the appropriate permitting authority. This half-day workshop addresses the Section 112 (j) Part 2 permit application requirements from both federal and state perspectives. State-specific permitting guidelines will be discussed for specific MACT categories.

Houston, TX	January 23
New York, NY	February 12
Atlanta, GA	March 6
Chicago, IL	April 9

### ACHIEVE COMPLIANCE AND REST EASY.

**Your Challenge:** Meeting MACT compliance obligations.

**Trinity's Solution:** A custom Compliance Management Tool that automates compliance tasks and streamlines recordkeeping and reporting for normal operations and Startup, Shutdown, and Malfunction events.



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## INDUSTRY-SPECIFIC WORKSHOPS

### MACT Compliance for the Chemical Process Industries—\$699

This intensive two-day workshop, with case studies, makes sense of the complicated MACT standards. The Miscellaneous Organic Chemical Manufacturing NESHAP (MON) and MACT standards for SOCOMI (HON), Pesticides, Hydrochloric Acid Production, Polyether Polyols, and Organic Liquid Distribution (Non-Gasoline) are covered. Discussions include the applicability and implementation of these MACT regulations.

Houston, TX                      April 24-25  
New York, NY                    May 8-9

### MACT Compliance for the Pharmaceutical Industry—\$399

Environmental personnel responsible for air quality compliance will learn about the requirements of the Pharmaceutical MACT and effective compliance strategies. Four separate case studies are used to illustrate the practical implications for process vents, wastewater units, and SSM planning.

New York, NY                    May 14

### Environmental Permitting for the Oil & Gas Industry—\$699

This two-day permitting workshop equips attendees with the knowledge and tools necessary to effectively address air quality, water, and waste regulations and permitting requirements for the Oil and Gas industry. Applicable regulations, emissions quantification, and control techniques are discussed with an emphasis on practical application.

New Orleans, LA                February 27-28  
Chicago, IL                        June 18-19

### Miscellaneous Organic NESHAP (MON) Workshop—\$399

On April 4, 2002, EPA proposed national emission standards for hazardous air pollutants for the Miscellaneous Organic Chemical Manufacturing source category. Commonly known as the MON, the proposed NESHAP will require all major sources producing previously unregulated organic chemicals to meet HAP emission limitation and work practice standards reflecting the application of maximum achievable control technology (MACT). The workshop, taught by instructors with proven industry and MACT compliance experience, includes detailed case studies and discusses the intricacies of the proposed regulation.

- Applicability
- Compliance strategies/options
- Initial and ongoing compliance
- Startup, Shutdown, and Malfunction (SSM) plans

Houston, TX                      February 26  
New Orleans, LA                March 24  
Chicago, IL                        June 10

## Clean Air Act Workshops

In these popular workshops, you will learn the essentials of proactive compliance with the Clean Air Act. Industry-specific issues will be covered, including NSPS, MACT, PSD, and nonattainment NSR. Emissions quantification techniques are also covered in detail. All Clean Air Act Workshops include hands-on exercises, extensive industry examples, and case studies.

### Clean Air Act Workshop for the Petroleum Refining Industry—\$699

Dallas, TX                        April 22-23  
Seattle, WA                        July 30-31

### Clean Air Act Workshop for Cement, Lime, and Aggregates—\$399

Baltimore, MD                    May 20

### Clean Air Act Workshop for the Power Generation Industries—\$399

Houston, TX                      April 23  
Chicago, IL                        July 17

### Clean Air Act Workshop for Surface Coating Operations—\$399

St. Louis, MO                    March 14  
Chicago, IL                        July 16

## REGISTER ONLINE,

learn about recent regulatory developments, download technical papers, and get answers to your technical questions on our *Ask the Experts* page.

### Fundamentals of Air Dispersion Modeling—\$999

In this flagship course, students receive a thorough introduction to air dispersion modeling theory and application. This course is designed for environmental professionals who need a solid understanding of air dispersion modeling principles.

- Scientific basis for air dispersion modeling
- Regulatory requirements for modeling
- Modeling study design
- U.S. EPA modeling guidelines and protocol

Dallas, TX	January 27-28
Los Angeles, CA	March 17-18
Atlanta, GA	April 28-29
London, U.K.	June 2-3
Chicago, IL	July 28-29

### Air Dispersion Modeling Computer Laboratory—\$1,499

This three-day course provides hands-on instruction using ISC and AERMOD, U.S. EPA's preferred air quality dispersion models. With the advent of a revised federal *Guideline on Air Quality Models* anticipated in 2003, industrial sources will be faced with challenging new procedures for data processing and analysis. This course reviews the scientific theory behind these dispersion models with an emphasis on formulating and conducting an air quality analysis from start to finish utilizing the refined model options of ISC and AERMOD.

- Case study analyses
- Processing meteorological and geophysical data
- Running and analyzing model output
- Principles of post-processing and graphical presentation

Dallas, TX	January 29-31
Los Angeles, CA	March 19-21
Atlanta, GA	April 30-May 2
London, U.K.	June 4-6
Chicago, IL	July 30-August 1

Take Modeling Fundamentals & Lab for \$2,125

### Air Quality Modeling in Canada—\$1,499

Many Canadian regulatory authorities now require a dispersion modeling assessment to determine whether a facility may violate point-of-impingement standards or air quality objectives. AERMOD and CALPUFF are likely to be selected as preferred models for such analyses. This three-day, hands-on course includes the scientific theory and practical uses of AERMOD and CALPUFF to estimate the ambient impact of air pollutants emitted from industrial sources in Canada.

- Air dispersion modeling theory
- Canadian air quality standards and modeling requirements
- AERMOD overview and case analysis
- CALPUFF overview and case analysis

Calgary, Alberta	June 16-18
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### Air Dispersion Modeling for Accidental Releases—\$499

This course focuses on the source analysis and air quality impact aspects of accidental releases from industrial facilities. The course covers the assumptions behind accidental release models, as well as respective strengths and shortcomings. Users will be able to select analysis strategies and reliably critique work.

- Parameters affecting source behavior
- Hazard assessment methodology
- Applicability of publicly and commercially available models for different release scenarios

Dallas, TX	February 24
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**BREEZE<sup>®</sup> Software...**  
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**PRICE KEY: \*\$399 \*\*\$499**

Trinity's state courses provide detailed training on air quality regulations that impact your operation. Our instructors are selected based on their experience dealing with the local agency for your state. Both federal and state requirements are discussed in these intensive one or two-day courses. All courses include a comprehensive resource manual, refreshments, and lunch. Topics include (but are not limited to) the following:

**Clean Air Act (CAA) Primer**

- 1970 Clean Air Act Amendments
  - National Ambient Air Quality Standards (NAAQS)
  - National Emissions Standards for Hazardous Air Pollutants (NESHAPs)
  - New Source Performance Standards (NSPS)
- 1977 Clean Air Act Amendments
- 1990 Clean Air Act Amendments

**Federal New Source Construction Permits**

- When are permits required?
- Prevention of Significant Deterioration (PSD)
- Nonattainment New Source Review (NSR)

**State Construction Permits**

- Permits and exemptions
- Application requirements and procedures
- Public participation

**Title V Operating Permits**

- Title V permit compliance
- Monitoring, recordkeeping, and reporting
- Periodic monitoring

**Toxic Air Pollutants**

**Initiatives/Emerging Issues**

<b>ALABAMA*</b> Orange Beach	March 14
<b>ARKANSAS*</b> Little Rock	February 20 June 19
<b>CALIFORNIA</b> <b>(San Diego APCD)*</b> San Diego	January 30
<b>(San Joaquin Valley United APCD)*</b> Bakersfield	April 11
<b>(SCAQMD)**</b> Long Beach	March 27-28
Riverside	June 12-13
<b>COLORADO**</b> Denver	May 15-16
<b>DELAWARE*</b> Wilmington	June 5
<b>GEORGIA*</b> <b>Air Permitting</b> Atlanta	February 13
<b>Nonattainment Area Regulations</b> Atlanta	April 24
<b>IDAHO*</b> Boise	June 5
<b>ILLINOIS**</b> Chicago	April 8-9
<b>INDIANA*</b> Indianapolis	March 10
<b>IOWA**</b> Des Moines	March 25-26
Quad Cities	July 22-23
<b>KANSAS*</b> Wichita	January 23

<b>KENTUCKY*</b> Paducah	February 20
<b>LOUISIANA*</b> Lake Charles	February 25
New Orleans	May 19
<b>MARYLAND*</b> Baltimore	April 9
<b>MINNESOTA*</b> Minneapolis	June 19
<b>MISSISSIPPI*</b> Jackson	February 10
Gulfport	July 15
<b>MISSOURI**</b> St. Louis	February 4-5 July 15-16
Kansas City	February 25-26
<b>NEBRASKA*</b> Omaha	April 29
<b>NEW JERSEY*</b> Princeton	February 20
<b>NEW MEXICO*</b> Albuquerque	April 10
<b>NEW YORK*</b> Albany	April 24
<b>NORTH CAROLINA*</b> Charlotte	March 11
Raleigh	March 12
<b>OHIO*</b> Cincinnati	May 13

<b>OKLAHOMA*</b> <b>Water &amp; Waste Permitting</b> Oklahoma City	April 4
<b>Air Permitting</b> Tulsa	July 17
<b>OREGON**</b> Portland	May 8-9
<b>PENNSYLVANIA*</b> Pittsburgh	March 20
<b>TENNESSEE*</b> Knoxville	February 27
Nashville	June 4
<b>TEXAS*</b> <b>NSR</b> Dallas	March 6 July 24
Houston	May 29
<b>Title V</b> Dallas	March 7 July 25
Houston	May 30
<b>UTAH**</b> Salt Lake City	March 27-28
<b>VIRGINIA*</b> Richmond	June 17
Fairfax	June 18
<b>WASHINGTON**</b> Spokane	April 1-2
<b>WISCONSIN*</b> Milwaukee	May 15
<b>WYOMING**</b> Casper	April 24-25

**Introduction to Environmental Management Systems—\$599**

You will be introduced to the concepts and guidelines associated with Environmental Management Systems (EMS) and the ISO 14001 standard. This course is an excellent primer for those considering implementation of an EMS or ISO 14000 certification.

- Components of EMS
- Introduction to EMS implementation and design
- Elements of ISO 14001
- How to maximize benefits from EMS and ISO 14001

Dallas, TX                      February 11  
Chicago, IL                      May 7

**Managing Climate Change Risk—\$599**

Global climate change has the potential to become a major environmental and economic challenge. Environmental managers must understand the risks posed by this issue while proactively and effectively managing them. The primary focus of the class is on risk management, yet the science associated with human activity-enhanced climate change is included.

- Understanding international and domestic policy developments
- Predicting future regulatory schemes
- Emissions reduction/productivity improvement opportunities
- Benchmarking the performance of leading companies
- Developing response strategies appropriate to your organization

Washington, D.C.              April 7  
Seattle, WA                      July 21

**Integrating Sustainable Development Concepts into Operations—\$1,199**

Recent economic events have forced business and financial leaders to concentrate on the importance of following good, fundamental business practices while considering a longer-term perspective. In this intensive, two-day class you will be immersed in the subject of sustainable development, designing and operating a business so that it is viable and successful with respect to financial, environmental, and social performance metrics over the long-term.

- Overview of basic concepts
- Goal setting, strategy development, and implementation of appropriate performance metrics
- Integrating sustainable development into business planning

Washington, D.C.              April 8-9  
Seattle, WA                      July 22-23



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**NEW! Managing Emissions Assets—\$599**

The emissions trading marketplace is becoming more sophisticated and the potential benefits of participating more tangible. This course introduces the concept of emissions trading, reviews the status of policy and regulatory developments, and investigates opportunities to participate in emissions trading. Case studies will illustrate the advantages of actively managing a facility's emissions assets and the issues that need to be addressed to implement a successful program.

Washington, D.C.              June 3

**NEW! Regulatory Compliance and Risk Management—\$1,499**

U.S. manufacturing companies are subject to complex federal, state, and local environmental regulations. Because compliance is often unattainable, companies are left facing possible civil and criminal penalties, a poor reputation, and balance sheet problems. Executives and board members governing these companies must understand these risks and take measured steps to minimize organizational exposure. This class, facilitated by Trinity Consultants' President and Vice President of Consulting Operations, explores the nature of regulatory compliance risk and how to effectively manage and mitigate it.

Hilton Head, SC              May 15-16

**NEW! Living with Title V Permits—\$599**

This intensive, two-day course provides a detailed insight to the Title V process and identifies strategies to minimize compliance demonstration intrusions associated with a Title V operating permit.

- Guidance on reviewing/revising draft conditions from the agency
- Renewals and reopenings
- Maintaining an up-to-date permit for annual inspections
- Operating permit changes without reopening the permit

Charlotte, NC                      April 15

**NEW! Class I Area Impact Assessments using CALPUFF—\$599**

The assessment of air quality impacts on federally protected Class I areas has become a critical component of the pre-construction environmental analyses required under NSR permitting regulations. This workshop equips environmental professionals with an understanding of Class I area assessments and the CALPUFF modeling system. Learn to effectively manage technical analyses, review proposals or reports, and respond to modeling study inquiries. This seminar offers an overview of a typical CALPUFF impact analysis focusing on data selection, quality assurance, and model sensitivity.

- Federal regulations and guidance documents for Class I area impact assessments
- Complete CALPUFF analysis

Atlanta, GA                      January 21  
Denver, CO                      May 22

## WHO IS TRINITY CONSULTANTS?

Trinity Consultants is a nationwide consulting company that assists industrial facilities with regulatory compliance and environmental management. For 28 years, Trinity has provided environmental services, from dispersion modeling studies to environmental permitting to enterprise-wide environmental management solutions. Trinity provides *BREEZE*® air dispersion and explosion safety modeling software and Integrum™ EH&S/quality management software. Trinity is also committed to delivering superior training in environmental issues to industry professionals.

T3 is a leader in Environmental, Health and Safety (EH&S) information technology. T3 implements a wide range of solutions from custom compliance management tools to enterprise-wide Environmental Management Information Systems (EMIS). A Trinity Consultants company, T3 is dedicated to providing sustainable, technology-based EH&S solutions that facilitate environmental compliance, streamline recordkeeping and reporting, and support profitable business growth.

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**TEAM DISCOUNTS:** Send 3 or more people from one organization and receive a **10%** discount off each enrollment fee. Larger discounts will be negotiated for larger groups.

Course Name: \_\_\_\_\_

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How did you hear about Trinity's training courses?  
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**MAIL:** Trinity Consultants, Attn: Registrar  
12801 N. Central Expwy., Suite 1200  
Dallas, TX 75243

Course fees are due prior to the first day of class. Only one discount rate applies per registration.

### Cancellation Policy:

Class attendees must cancel two weeks prior to the course date to receive a full refund. 75% of the course fee will be refunded for cancellations received within two weeks of the class date. A 50% refund will be given for cancellations received less than one week prior to class. There will be no refund for cancellations received less than 2 business days prior to the course. Trinity Consultants reserves the right to cancel any course, providing a full refund to the registrant.

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**A certificate indicating professional development hours is provided to each individual that completes a Trinity course.**

**Inside! Training opportunities for:**

- Federal and state air quality permitting
- Air dispersion modeling
- Prevention of Significant Deterioration (PSD)
- Environmental management and ISO 14001
- NPDES permitting

**Why should you attend a Trinity training course?**

- Top technical instructors with industry experience
- Comprehensive and up-to-date course materials that are valuable reference tools
- Convenient course locations scheduled around the country and optional on-site training
- Course topics designed to meet your needs
- Training courses designed to help environmental professionals reach day-to-day and long-range goals

**Who should attend a Trinity training course?**

- Plant managers
- Regulatory compliance coordinators
- Permit engineers
- Attorneys
- Design engineers
- Plant operations personnel
- Environmental health & safety directors
- Project engineers
- Maintenance personnel
- Production supervisors
- Environmental coordinators
- Facilities engineers
- Anyone who needs a working knowledge of the latest environmental issues

**Please forward this brochure to others who may benefit from this training.**



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