

# AERMOD Training

Gaussian Plume Air Dispersion Model

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**Lakes**  
Software  
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# Course Agenda

## Two Day Training

### DAY 1

8:30am - 4:30pm

#### Morning

- Introduction
- Physics of Air Dispersion
  - Turbulence
  - Meteorology
  - Receptors
  - Topography
  - Plume Rise
  - Building Downwash
  - Deposition
- Hands-on Meteorological Data Processing
- Refined Model Introduction. Overview and Data Input for AERMOD and BPIP models

#### Afternoon

- Coordinate Systems and Maps
- Hands-on BPIP and AERMOD
- Terrain Processing
- Hands-on AERMAP
- Analyzing Results
- Understanding PUFF and Plume models

### DAY 2

8:30am - 4:30pm

#### Morning

- 1st Day Review
- Atmospheric Physics - Planetary Boundary Layer Theory and Turbulence
- Hands-On “Fresh Case” Do It Yourself
- Special Topics
  - Coastal and Valley Issues
  - Flares
  - Odor
  - Roads
  - Storage Tanks
- Air Dispersion Modeling Challenges

#### Afternoon

- Detailed Case Study\*
- Multi-Chemical Runs
- Wet and Dry Deposition
- Discussions and Future Topics

\* Ontario only: Special modeling case following the new Air Dispersion Modeling Guideline for Ontario (ADMGO) which provides guidance on complying with the dispersion model requirements of Ontario Regulation 419/05: Air Pollution – Local Air Quality.

# Theory & Hands-On

## Lakes Environmental Training Approach



**“REAL EXPERTISE, AND IT SHOWS!” -D.D. MADRID, SPAIN**

**“It was a great class! It had the perfect mix of lecture and hands-on”**

B.H. - Carson City, Nevada

**“Very well structured, with applicable theories and hands on training for practice”**

W.J. - Toronto, Ontario

### The Best Way to Learn New Software

Lakes Environmental has offered training in air dispersion modeling worldwide since 1998. Our classes not only emphasize the importance of AERMOD's theoretical application, but also its practical hands-on functionality.

Lakes Environmental believes that the best way to learn new software is to learn it first hand. That's why every course attendee is trained by our experts, in a smaller class setting, and provided individual access to AERMOD View during our

training. We ensure your training experience provides you with all the necessary tools and information to carry out your own AERMOD modeling projects.

Well structured classes, expert instructors, small class sizes, extensive course materials, and personal software access for the duration of the course; it's no wonder Lakes Environmental is the most internationally recognized provider of AERMOD modeling training.

# Course Materials

Included in your Training Registration



## Course Notes & Slides

Lakes Environmental equips you with the necessary materials for your future endeavors with AERMOD modeling. We supply you with course slides from the training presentation, and course notes that take you step-by-step through modeling procedures.

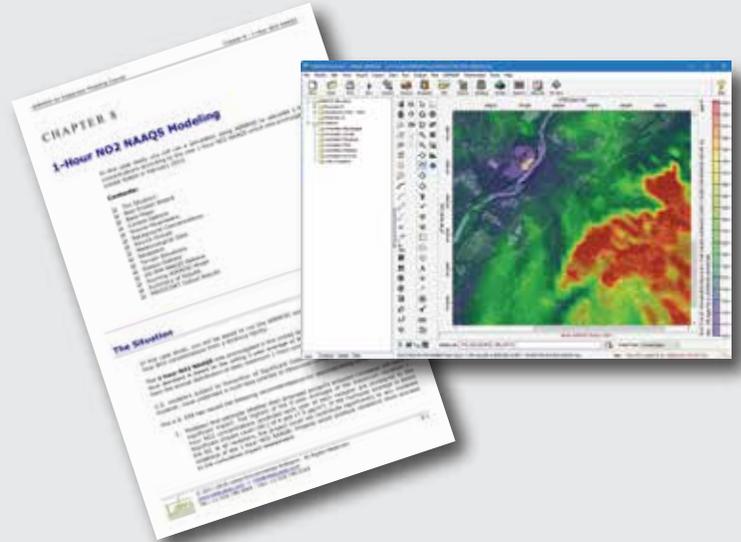
# AERMOD View

## Gaussian Plume Air Dispersion Model

AERMOD View is a complete and powerful air dispersion modeling package which seamlessly incorporates the popular U.S. EPA models into one interface: AERMOD, ISCST3, and ISC-PRIME. These models are used extensively to assess pollution concentration and deposition from a wide variety of sources.

The AMS/EPA Regulatory Model (AERMOD) is the next generation air dispersion model based on planetary boundary layer theory.

AERMOD fully incorporates the PRIME building downwash algorithms, advanced depositional parameters, local terrain effects, and advanced meteorological turbulence calculations.



**10% off  
AERMOD View**

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