

Introduction to Airpak

Course level: introductory

Duration: 2 days

Fluent Training

Center locations: Lebanon, NH
New York, NY
Santa Clara, CA

Course format: 60% lecture
40% hands-on

Prerequisites: technical education and background is recommended; a good understanding of the application of interest will be helpful

Cost: \$1200 per person

Course fee includes a mid-morning snack and lunch each day.

Recommended follow-on customized courses - contact your Fluent Account Representative for more information:

- Data center modeling
- Building ventilation
- Industrial ventilation
- Fire & smoke modeling

Check course dates and register:
fluent.com/direct/train-me

Learn how to accurately and easily model airflow, heat transfer, contaminant transport and thermal comfort in your ventilation system

Intended Audience

This course was designed for clients who have just begun to use Airpak airflow modeling software or are planning to deploy airflow modeling technology in their engineering analysis program.

Core Objectives

The prime goal of this course is to introduce the student to the basics of using Airpak, familiarize them with the user interface, and begin a mutually beneficial partnership.

By the conclusion of this course, students will have a solid understanding of:

- Airpak's capabilities including problem setup, CAD import, modeling considerations, meshing, solver attributes, use of macros, postprocessing and reporting
- Guidelines for successfully deploying Airpak for real-world projects

Deliverables

Each student receives:

- A dedicated application work session with assistance as needed from Airpak technical support staff
- Meeting with your Consulting Engineer
- A bound manual with lecture notes and tutorials
- Introduction to the online User Services Center for future reference
- Introduction to the Fluent Remote Simulation Facility for Airpak RSF clients

Customer Site Option

Any of the instructor-led classes may be conducted at your company site using your computing resources – a more cost-effective option if you have multiple users that require training.

Questions or to Register

If you have questions concerning this course, please contact our Training Coordinator:

800-445-4454 x521

trng-coor-nh@fluent.com

Instructor Profiles



Viral Gandhi

Viral joined Fluent Inc. in 2001. As a Senior Consulting Engineer,

Viral is one of Fluent's leading experts in airflow modeling for ventilation. Viral assists clients in successfully implementing airflow modeling for a wide range of applications involving indoor air quality, thermal comfort, industrial ventilation, fire safety, chemical/ biological agent dispersion, and decontamination. Viral holds a master's degree from the University of Cincinnati.



Roopesh Mathur, PhD

Roopesh Mathur is a Training Engineer who specializes in meshing

issues and the application of GAMBIT and TGrid to meshing complex geometry. He received his PhD from the University of Delaware and BTech from IIT Madras, both in mechanical engineering.

Course Agenda

Day 1

8:15 am	Introduction • Overview • Demonstration
9:00 am	Getting Started
9:15 am	Building Models with Airpak
10:00 am	Break
10:15 am	Tutorial: Ventilation of a Partitioned Office
11:30 am	Lecture: Physical Modeling & Boundary Conditions
12:15 pm	Lunch
1:15 pm	Lecture: Meshing
1:45 pm	Hands-on Exercises: Meshing
2:45 pm	Break
3:00 pm	Tutorial: Student's Choice
5:00 pm	Wrap-up

Day 2

8:15 am	Lecture: Solving the Problem
8:45 am	Lecture: Postprocessing
9:15 am	Hands-on Exercises: Postprocessing
10:15 am	Break
10:30 am	Lecture: Methods for Working Faster
11:30 am	Lecture: Defining & Planning Your Analyses
12:00 pm	Lunch
1:00 pm	Jumpstart Your Own Analysis assistance provided by Airpak technical support staff
5:00 pm	Wrap-up