



**SYNERGIS**  
Engineering Design Solutions

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#### TRAINING LOCATIONS

##### Quakertown

18 South 5th Street  
Quakertown, PA 18951

##### Manheim

ABC Keystone Chapter  
135 Shellyland Road  
Manheim, PA 17545

##### Philadelphia

1515 Market Street  
Suite 1200  
Philadelphia, Pa 19102



## Autodesk Simulation CFD Essentials

### Course Description:

This foundation-level courseware covers the operation of Autodesk Simulation CFD. This two-day training course is intended to give students comprehensive experience with the features Autodesk Simulation CFD. Hands-on exercises throughout the courseware explore how to create a model, setup a simulation and investigate the results. While this course is not a course on computational fluid dynamics theory or practice, it is a course on the operation of a very powerful tool for using that theory to model real world design challenges.

### Prerequisites:

General knowledge of Microsoft Windows OS (Windows XP, Windows Vista , or Windows 7). Experience with 3D CAD modeling and visualization techniques is helpful.

Length:	2 days
Times:	8:30 AM - 4:30 PM
PDH Credit Hours:	13 hours

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## Representative Topics

- Getting Started
- Viewing Tools
- Geometry Clean Up
- Assigning Materials
- Analysis Types
- Results
- Component Display Settings
- Duplicating Analyses
- Comparing Results
- Displaying Multiple Results
- Simulation CFD User Interface
- Analysis Setup
- Creating Internal and External Flow Volumes
- Running an Analysis
- Analysis Controls
- Setting Units
- Global Temperatures
- Cloning Designs /Cloning Analysis Scenarios
- Visualization Tools
- Simulation CFD Viewer

The suggested course duration is a guideline. Course topics and duration may be modified by the instructor based upon the knowledge and skill level of the course participants. Cancellation/Rescheduling Fee of 25% of the Daily Rate per Student will be assessed for anyone canceling or rescheduling a Synergis Training Class without at least 14 days notice. If applicable, the Cancellation or Rescheduling Fee will be invoiced to you automatically. Classes are confirmed based on the number of students registered and therefore cancellations and rescheduling of classes may affect other customers. Please be sure that you can attend the class dates for which you are registering when you submit your order.