

TRAINING LOCATIONS

Synergis EduCast
Virtual
Online

Quakertown
18 South 5th Street
Quakertown, PA 18951



Autodesk Simulation CFD Essentials

Course Description:

This course introduces the Autodesk CFD software tools for computational fluid dynamics and thermal simulation to predict product performance, optimize designs, and validate product behavior before manufacturing. It covers how to setup and conduct thermal and flow analyses on part and assembly models, as well as electronic cooling, flow control, and AEC-type models.

Prerequisites:

Some flow and thermal analysis knowledge and interpret results is recommended
Experience with 3D modeling is recommended

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

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Representative Topics

- Open and navigate the Autodesk CFD environment to conduct flow and thermal analyses on part and assembly models
- User Autodesk SimStudio Tools to make required changes to CAD geometry
- Set up analyses by applying appropriate materials, boundary conditions, and mesh settings
- Apply appropriate solver settings to run your analyses and converge to an acceptable solution
- Use the Model Assessment Toolkit to investigate the suitability of model geometry for analysis
- Create internal and external fluid volumes
- Refine mesh to obtain a proper solution
- Use the visualization tools to compare summary images, summary values, and summary plots of your analyses to compare design and scenario results of a CFD analysis

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 cancelling 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. Class cancellations will result in a refund 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.

- Conduct a final validation of your solution by running through a validation checklist