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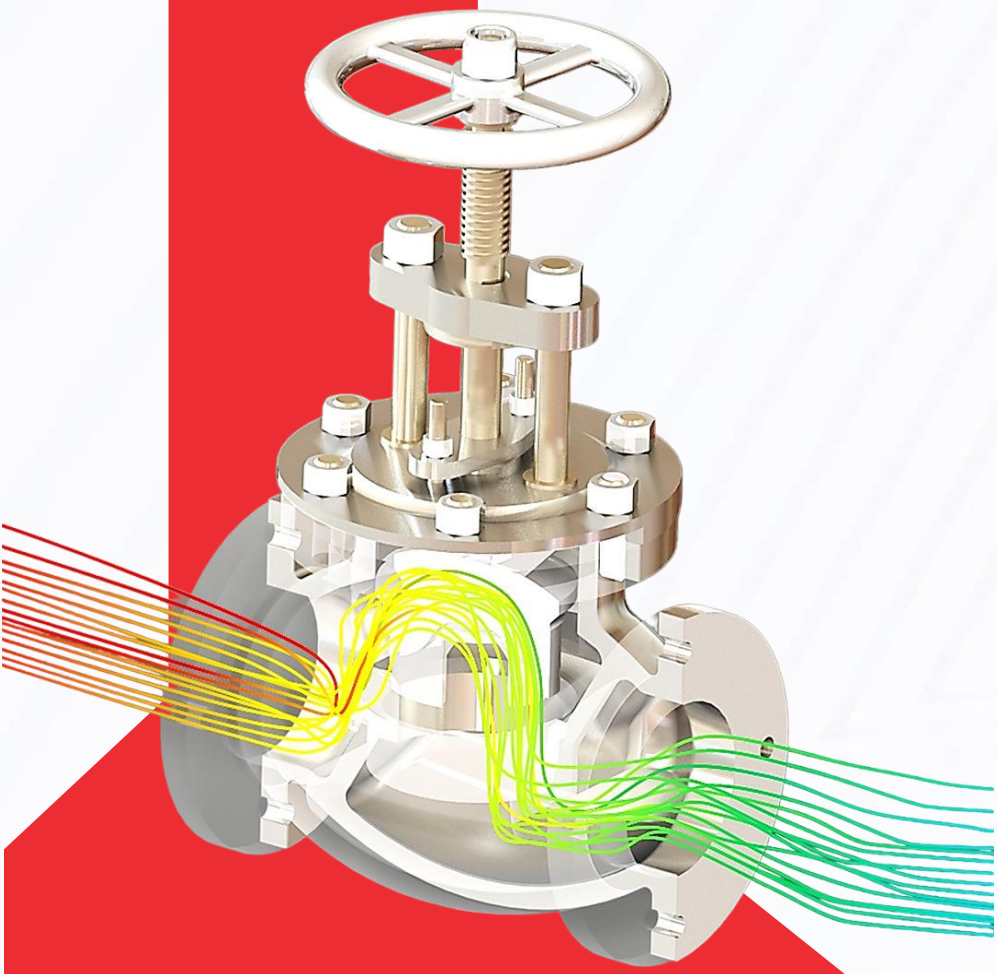
# SOLIDWORKS Flow Simulation COURSE



CERTIFIED
Training & Support Provider
SOLIDWORKS

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SOLIDWORKS **Flow Simulation**

**COURSE DESCRIPTION** : SolidWorks Flow Simulation

**COURSE DURATION** : 50 hrs.

## SYLLABUS

### Module 1: Introduction

- Design cycle with SolidWorks Flow Simulation
- Benefits of Analysis
- The Finite Volume Method
- Computational Domain
- Types of Boundary Conditions
- Goals of Analysis
- Meshing
- Running Analysis
- Visualizing Results

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### Module 2: Steady State analysis

**Study of flow inside an electronic enclosure.**

- Creating domain.
- Mesh Optimization.
- Specify axial fan.
- Specifying perforated plate condition.
- Flow trajectories.
- Application of EFD Zooming.
- Clone project.

### Module 3: Conjugate Heat transfer analysis

**Study of Heat transfer inside an electronic enclosure.**

- Specifying heat source
- Specify insulation region.
- Specify rotating region.
- Material definition.
- Application of two resistor components.
- Specifying PCB.
- Specifying heat pipes.
- Cut plots and surface plots.

**Module 4: Transient analysis**

- Setting Up transient analysis study.
- Specify boundary conditions.
- Specify time varying loads.
- Plot results in each time steps.
- Transient thermal graph.

**5.Additional Topics (with Example Problems)**

- Flow through porous medium.
- Radiative Heat transfer analysis.
- Flow Simulation to simulate cooling of electronic components in an embedded industrial computer

**Certificate:**

On successful completion of the course and evaluation, the Certificate will be issued by aCADemix.

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SOLIDWORKS Flow Simulation

# OTHER COURSES

## SolidWorks 3D CAD

- SolidWorks-Basics
- SolidWorks-Advanced
- SolidWorks- Mold Design
- SolidWorks- Routing
- SolidWorks-Composer
- SolidWorks-MBD

## SolidWorks Simulation

- SW Simulation Advanced
- SW Simulation-Fatigue FEA
- SW Simulation-Drop Test FEA
- SW Simulation-Dynamic FEA
- SolidWorks Motion
- SolidWorks Plastics

## Design For Quality (DFQ)

- GD&T-Introduction
- GD&T-Advanced
- Tolerance Stack-Up Analysis
- DFMEA

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## SolidWorks Automation

- SolidWorks API - Basics
- SolidWorks API - Advanced

## SolidWorks PDM

- SolidWorks PDM- User
- SolidWorks PDM - Admin

## SolidWorks PDM Automation

- SolidWorks PDM- Automation

## Abaqus CAE

- Abaqus CAE – Linear Static Analysis