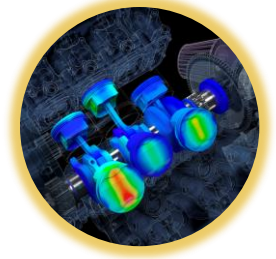


Autodesk® Simulation Mechanical

Part II Course Overview



Duration:
2 days

Who Should Attend?

Autodesk Simulation Mechanical or Multiphysics users that need to see how mechanisms interact with each other over time. You will leave this course understanding how to analyze for stress and deformation under real world operating conditions.

Autodesk Simulation Mechanical Part I is a prerequisite for this course.

To register for upcoming classes Email:
NA.MFG.simulation.training@autodesk.com

Phone: +1.412.967.2779

Course Description

This course will introduce you to large scale motion, large deformation, large strain with contact, and non-linear material analyses capabilities available within Autodesk® Simulation Mechanical and Multiphysics. This course assumes you have a working knowledge of the Autodesk Simulation user interface and basic FEA theory. It is recommended that you attend the Autodesk Simulation Mechanical Part I course prior to attending this class. Many people choose to take both Part I & II in the same week.

Course Outline - Autodesk Simulation Mechanical Part II

Introducing Mechanical Event Simulation

- Stress and Strain Review
- Numerical example

Events and Prescribed Motion

- Dynamic Analysis Techniques
- Time Steps
- Time-Dependent Boundary Conditions
- Results Evaluation

Contact and Impact

- Contact Parameters
- Friction
- Impact Planes

Non-Linear Materials

- Elastic
- Hyperelastic
- Foam
- Viscoelastic
- Plastic
- Electrical

Geometric Nonlinearities

- Post Buckling Behavior
- Variable Time Step Analyses

Results-Based Loading

- Lookup Values
- Specifying Equations
- Conditional Statements

Engineering Elements

- Shell
- Membrane
- Line
- Beam
- Pipe
- Slider
- Actuator
- Spring
- Pulley

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