

Inventor Introduction to Solid Modeling Bootcamp



INVENTOR INTRODUCTION TO SOLID MODELING BOOTCAMP TRAINING COURSE SYNOPSIS

Inventor Introduction to Solid Modeling training instructs students in the best usage approaches for parametric design philosophy through a hands-on, practice-intensive curriculum.

PREREQUISITES FOR THIS INVENTOR INTRODUCTION TO SOLID MODELING BOOTCAMP TRAINING COURSE

A working knowledge of basic design/drafting procedures and terminology and a working knowledge of your operating system.

WHAT YOU WILL LEARN IN INVENTOR INTRODUCTION TO SOLID MODELING BOOTCAMP TRAINING COURSE

- Understanding the Autodesk® Inventor® software interface
- Creating, constraining, and dimensioning 2D sketches
- Creating and editing the solid base 3D feature from a sketch
- Creating and editing secondary solid features that are sketched and placed
- Creating equations and working with parameters
- Manipulating the display of the model
- Resolving feature failures
- Duplicating geometry in the model
- Placing and constraining/connecting parts in assemblies
- Manipulating the display of components in an assembly
- Obtaining model measurements and property information
- Creating Presentation files (Exploded views)
- Modifying and analyzing the components in an assembly
- Simulating motion in an assembly
- Creating parts and features in assemblies
- Creating and editing an assembly Bill of Materials
- Working with projects
- Creating and annotating drawings and views
- Customizing the Autodesk Inventor environment

INVENTOR INTRODUCTION TO SOLID MODELING BOOTCAMP TRAINING COURSE LENGTH AND TIME

This class is 5 days long. Class time is 9:00 a.m.- 4:00 p.m. Breaks are scheduled throughout the day and lunch is typically scheduled 12-1. Students provide their own lunch.

ENROLLMENT IN INVENTOR INTRODUCTION TO SOLID MODELING BOOTCAMP TRAINING COURSE

Please see our Enrollment Page (<http://www.ledet.com/enroll>) for our enrollment form.

INVENTOR INTRODUCTION TO SOLID MODELING BOOTCAMP TRAINING COURSE LOCATIONS

We have training centers in Atlanta, Chicago, Denver, San Diego and Washington DC. We also offer classes at a network of rental facilities. We offer private onsite training and instructor-led, live online training. If coming to a rental facility, please double-check the location of your class with our office to make sure you get to the right location.

GOALS FOR INVENTOR INTRODUCTION TO SOLID MODELING BOOTCAMP TRAINING COURSE

Sterling Ledet and Associates realizes the importance of education and we take pride in being able to offer you classes that are more custom fit to your needs. Call us at (877) 819-2665 if you have any special questions or e-mail us at sales@ledet.com.

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LESSON 1 - INTRODUCTION TO AUTODESK INVENTOR

Introduction
Autodesk Inventor Fundamentals
Autodesk Inventor Interface
Model Manipulation

LESSON 2 - CREATING THE BASE FEATURE

Creating a New Part File
Sketched Base Features
Primitive Base Features

LESSON 3 - ADDITIONAL SKETCHING TOOLS

Additional Entity Types
Basic Editing Tools
Additional Constraint Tools
Additional Dimension Tools

LESSON 4 - ADVANCED SKETCH EDITING TOOLS

Advanced Editing Tools
Rectangular Sketch Patterns
Circular Sketch Patterns
Sketch Preferences

LESSON 5 - SKETCHED SECONDARY FEATURES

Sketched Secondary Features.
Using Existing Geometry
Create a Sketched Revolve
Create Sketched Extrusions
Share Sketch

LESSON 6 - CREATING PICK AND PLACE FEATURES

Edge Chamfer
Constant Fillets
Variable Fillets
Face Fillets
Full Round Fillets
Straight Holes
Threads
Editing Pick and Place Features
Creation Sequence

LESSON 7 - WORK FEATURES

Work Planes
Work Axes
Work Points

LESSON 8 - EQUATIONS

Equations
Parameters

LESSON 9 - ADDITIONAL FEATURES

Face Draft
Splitting a Face or Part
Shells
Ribs

LESSON 10 - MODEL AND DISPLAY MANIPULATION

Reordering Features
Inserting Features
Suppressing Features
Section Views
Design Views

LESSON 11 - FIXING PROBLEMS

Sketch Failure
Feature Failure

LESSON 12 - SWEEP FEATURES.

Sweep Features.

LESSON 13 - LOFT FEATURES

Rail and Center Line Lofts
Advanced Loft Options

LESSON 14 - DUPLICATION TOOLS

Rectangular Feature Patterns
Circular Feature Patterns
Mirror Parts or Features
Manipulate Patterns and Mirror Features

LESSON 15 - FEATURE RELATIONSHIPS

Establishing Relationships
Controlling Relationships
Investigating Relationships
Changing Relationships

LESSON 16 - ASSEMBLY ENVIRONMENT

Assembling Components
Content Center
Assembly Browser
Saving Files

LESSON 17 - JOINT CONNECTIONS

Assembling Components

LESSON 18 - MANIPULATING ASSEMBLY DISPLAY

Moving and Rotating Assembly
Components .
Suppressing Constraints
Component Display
Selection Options in Assemblies

LESSON 19 - MODEL INFORMATION

Measurement Tools
Model Properties

LESSON 20 - DESIGN PRESENTATION AND ANIMATION

Exploded View Presentations

LESSON 21 - ASSEMBLY TOOLS

Replacing Components
Restructuring Components
Driving Constraints
Contact Solver
Interference
Error Recovery

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LESSON 22 - ASSEMBLY PARTS AND FEATURES

Changing Part Units
Command Customization

Assembly Parts
Assembly Features

LESSON 23 - ASSEMBLY BILL OF MATERIALS

Create Virtual Components
Create Bill of Materials

LESSON 24 - WORKING WITH PROJECTS

New Projects
Resolving Links

LESSON 25 - DRAWING BASICS

Creating a New Drawing
Base and Projected Views
Additional Drawing Views
Manipulating Views

LESSON 26 - DETAILING DRAWINGS

Dimensions
Drawing Sheets
Parts List
Balloons
Styles and Standards
Hatching

LESSON 27 - DRAWING ANNOTATIONS

Text
Symbols
Hole and Thread Notes
Chamfer Notes
Center Marks and Center Lines
Hole Tables
Revision Tables and Tags

LESSON 28 - CUSTOMIZING AUTODESK INVENTOR

Application Options
Document Settings
File Properties