



OVERVIEW OF COURSE

SolidWorks Level 1 Basic Skills

Course Length: 5 days

This course is intended to help new users learn the basic concepts of SOLIDWORKS and good solid modeling techniques in an easy to follow guide that includes video instruction. It is a great starting point for those new to SOLIDWORKS or as a teaching aid in classroom training to become familiar with the software's interface, basic commands and strategies as users complete a series of models while learning different ways to accomplish a particular task.

At the end of this course, you will have a fairly good understanding of the SOLIDWORKS interface and the most commonly used commands for part modeling, assembly and detailing after completing a series of components and their 2D drawings complete with Bill of Materials.

The course focuses on the processes to complete the modeling of a part, instead of focusing on individual software commands or operations, which are generally simple enough to learn.

The course material used strives hard to include the commands required in the Certified SOLIDWORKS Associate and Certified SOLIDWORKS Professional Exams as listed on the SOLIDWORKS website.

SOLIDWORKS is an easy to use CAD software that includes many time saving tools that will enable new and experienced users to complete design tasks faster than before. Most commands covered in this course have advanced options, which may not be covered in this course. This is meant to be a starting point to help new users to learn the basic and most frequently used commands.

Topics include:

1. The SOLIDWORKS Interface
2. Part Modeling
3. Special Features: Sweep, Loft and Wrap
4. Detail Drawing
5. Assembly Modeling
6. Assembly and Design Table Drawings
7. Animation and Rendering
8. Analysis: SimulationXpress
9. Collaboration: eDrawings

Prerequisites

None



OVERVIEW OF COURSE



Part Modeling

- The Housing
- The Side Cover
- The Top Cover
- The Offset Shaft
- Auxiliary Geometry
- The Worm Gear
- The Worm Gear Shaft

Special Features: Sweep, Loft and Wrap

- Sweep: Cup and Springs
- The Cup
- Simple Spring
- Variable Pitch Spring
- Thread Feature
- Sweep: Bottle
- Loft: Bottle
- Wrap Feature
- Worm Gear Shaft Complete
- Worm Gear Complete

Detail Drawing

- Drawing One: The Housing
- Drawing Two: The Side Cover
- Drawing Three: The Top Cover
- Drawing Four: The Offset Shaft
- Drawing Five: The Worm Gear
- Drawing Six: The Worm Gear Shaft

Assembly Modeling

- The Speed Reducer Assembly
- SmartMates
- Fasteners
- Configurations using Design Tables
- Interference Detection
- Assembly Configurations
- Exploded View

Assembly and Design Table Drawings

- Assembly Drawing
- Design Table Drawing



OVERVIEW OF COURSE



Animation and Rendering

- PhotoView 360
- Animation

Analysis: SimulationXpress

- Background: Why Analysis?
- Engine's Connecting Rod Analysis
- A final word on analysis

Collaboration: eDrawings



OVERVIEW OF COURSE



Cancellation Policy

The following cancellation policy shall apply to all training engagements, Live Online, Onsite, Consulting Services and Dedicated/ Custom Training:

- Company reserves the right to reschedule or cancel the date, time and location of its class at any time. In the event that a Training Class is cancelled by Company, Customer is entitled to a full refund. Company shall not be responsible for any other loss incurred by Customer as a result of a cancellation or reschedule.
- For Customer cancellations when written notice is received at least ten (10) business days in advance of the class, the Customer is entitled to a full refund of its payment or reschedule enrollment less than ten (10) business days, Customer shall not be entitled to a refund, but shall receive a class credit to be used within three (3) months of the date of the original class.
- Student substitutions are acceptable with at least two (2) days prior notice to the class, provided substitution meets course prerequisites and is approved by Company's Training Coordinator. (training@dezinext.com)
- For all Training orders, cancellation notices must be submitted to training@dezinext.com. Company is not responsible for any error in the delivery of the email notice. In the event of any reschedule of Onsite training and/or Consulting Services and/or Dedicated/Custom Training by Customer, Company will invoice Customer for all non-cancellable travel expenses.

To request more information or view other courses available, visit www.dezinext.com.