

# Thinkcad Training Services



## Thinkcad Training Services

Learning and coaching solutions to advance your career.

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**Why take training?**



## **IMPROVE Your Career**

**Training can dramatically improve your career. After taking training customers have realized a 50% to 90% reduction in their design time because they are able to use SOLIDWORKS software more effectively:**

Designers are able to reduce their design time.  
Have a consistent design approach.  
Work more effectively to create and reuse geometry.

## **MAINTAIN Best Practices**

**SOLIDWORKS is always changing, with over 250 new enhancements added every year your team needs to develop skill sets in order to maintain best practices and be effective:**

Users tend to work in the way they were last trained and need to stay up-to-date with SOLIDWORKS best practices. SOLIDWORKS skills are not easily shared by the whole team and power users are often too busy to develop other users and teach best practices. Continuous skills improvement allows users to develop and become more productive over time.

## **ADVANCE Your Career**

**Advance your career and gain new skills with a SOLIDWORKS Certification. With 19 certification programs to choose from, including industry specific designations, there is a certification program designed for all careers.**

Prove to customers that you are proficient with SOLIDWORKS. We ensure you are able to develop over time by providing you with a structured career path. We make you more confident in the abilities with the knowledge that you are a certified professionals.

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# Why Thinkcad?



Since 2012 Thinkcad has been dedicated to providing solutions to our customers to improve their productivity. As India's premier provider of 3D design training; we are committed to helping you reduce your time to market, reduce costs, and improve quality. We focus our efforts to help you achieve success. We know that your people are a competitive advantage. Investing in their skill sets dramatically improves your key projects and initiatives. The value of training is well documented; combined with powerful technology that is constantly evolving - it is especially impactful.

## Expert Training Team

Thinkcad's Training Development Team works with you to find a creative, cost effective training solution that will dramatically impact your design time. With our experience and knowledge, we build customized solutions that meet your requirements, always with the goal to improve productivity and maximize your investment.

## Certified Instructors

Our Certified SOLIDWORKS Instructors deliver best-in-class training solutions to your individual team members, imparting the knowledge they need to enhance their productivity. Public training courses are situated in a friendly classroom setting, where participants are encouraged to interact and share their knowledge and challenges.

## Customized Programs

Training programs are not "one-size fits all". That is why we have developed a flexible training approach to personalize your training experience. Javelin has an extensive offering of training products and solutions. We offer customized training to fit your learning requirements and budget. Whether you need an Essentials class for a new employee, or a comprehensive assessment of needs combined with your best practices for your entire team, we are the right partner for you.

# **SolidWorks Syllabus:**

## **SOLIDWORKS Essentials:**

By quickly getting up to speed, as well as using best modeling practices, the Essentials course ultimately ensures maximum efficiency and productivity for all SOLIDWORKS users. New CAD users, seasoned users of other CAD systems and veteran SOLIDWORKS users can all benefit from Essentials training. Real life case studies are used to illustrate processes, teaching everything you need to know for building parametric models of parts and assemblies, and making drawings of those parts and assemblies.

### **After the training you will be able to:**

- Create parametric sketches Create parts and build assemblies
- Create and control different versions of your parts with configurations
- Automate design modification with equations and excel design tables
- Create drawings of your designs

### **Prerequisites:**

Mechanical or Industrial design experience Experience with the Windows™ operating system

## **SOLIDWORKS Advanced Part Modeling:**

The Part Modeling course is for SOLIDWORKS users who need to create complex parts or just want to become more productive. You will learn how to use Boolean operations in multibody parts in order to save time, build master models for parametrically driving whole projects from a unique location, reverse-engineer complex models using just a couple of pictures, and master along the way the most advanced solid features, including sweeps, lofts, boundaries, and everything there is to know about fillets.

### **After the training you will be able to:**

- Create freeform parts associated with consumer product design
- Create multibody parts and split them to create assemblies
- Use advanced features to generate custom solid model part designs

### **Prerequisites:**

Attended the SOLIDWORKS Essentials or equivalent level of knowledge At least one month of experience using the software

## **SOLIDWORKS Assembly Modeling:**

The Assembly Modeling course is a must for anyone who wants to master the use of SOLIDWORKS for creating and using assemblies. You will learn how to parametrically relate different components in the context of an assembly, master the art of creating and managing all types of mates, save time designing complex mechanisms, create multiple variations of your design, perform quick selections of components, and become confident working fast with large assemblies.

### **After the training you will be able to:**

- Create assemblies using bottom-up and top-down design approaches
- Control and automate your assemblies with configurations
- Resolve assembly design problems Use sketches to layout the design of your assemblies
- Better manage large assemblies and save time

### **Prerequisites:**

Attended SOLIDWORKS Essentials or equivalent level of knowledge At least one month of experience using the software.

### **SOLIDWORKS Drawings:**

The SOLIDWORKS Drawings course focuses in-depth on creating and managing complex drawings of SOLIDWORKS models (parts and assemblies) using the ANSI standards. You will learn how to quickly create and detail any type of drawing views, insert parametric Bill of Materials, Cut-Lists or other parametric data tables, customize drawing sheets and create smart title blocks. A special lesson is dedicated to quick and easy management of large assemblies drawings.

#### **After the training you will be able to:**

- Create drawings of your parts and assemblies
- Add BOMs, Cut-Lists, and other data tables to your drawings
- Create drawings of your large assemblies quicker and easier
- Customize your drawing sheets

#### **Prerequisites:**

Attended SOLIDWORKS Essentials or equivalent level of knowledge At least one month of experience using the software

### **SOLIDWORKS Sheet Metal:**

The SOLIDWORKS Sheet Metal course is designed for users who need to learn how to model sheet metal parts that will be bent in a press brake. You will learn how to build complex sheetmetal models(stand-alone or multibody) by using the various flange features or by converting solid bodies directly into sheet metal parts, apply forming tools, create flat patterns, and detail everything in SOLIDWORKS drawings.

#### **After the training you will be able to:**

- Create sheet metal parts and apply sheet metal features
- Import sheet metal parts from other CAD systems and convert them into SOLIDWORKS sheet metal parts
- Create sheet metal parts from within your assembly documents

#### **Prerequisites:**

Attended SOLIDWORKS Essentials or equivalent level of knowledge At least one month of experience using the software

### **SOLIDWORKS Weldments:**

Mastering the SOLIDWORKS Weldments environment provides you time savings of up to 90% compared to the traditional assembly workflows, for any user who designs structures made out of components with constant profiles. The knowledge you will gain can be applied to various applications, such as welded structures, wood decks, fences, stairs or railings. As a bonus, using Weldments allows you to rapidly analyze very large structures with much lower computational resources using SOLIDWORKS Simulation.

#### **After the training you will be able to:**

- Create weldment designs using the weldment tools in SOLIDWORKS
- Create drawings with Cut-Lists and weldment information
- Add weld beads and weld information to your drawings
- Use weldments in your assemblies

#### **Prerequisites:**

Attended SOLIDWORKS Essentials or equivalent level of knowledge At least one month of experience using the software

### **SOLIDWORKS Visualize Rendering:**

In the SOLIDWORKS Visualize course you will learn how to work with 3D CAD models to create unique photorealistic renderings for electronic and paper output. The course is designed around a process or task based approach to training rather than focusing on individual features and functions. Case studies are used to illustrate processes, allowing you to learn the necessary commands and workflows to set-up, manage and complete any rendering task.

#### **After the training you will be able to:**

Create renderings of your Part and Assembly documents  
Apply scenes and lighting Apply advanced visual effects to your renderings  
Create and apply decals to your models Use cameras effectively to visualize your models  
Attended the SOLIDWORKS Essentials or equivalent level of knowledge

#### **Prerequisites:**

A working knowledge of Photography

### **SOLIDWORKS Surface Modeling:**

The Surface Modeling course teaches you powerful tools to assist with imported geometry. The course also introduces a core toolset for producing freeform shapes. You will learn hybrid modeling techniques that combine surfacing methods with solid modeling.

After the training you will be able to:

Create complex surface designs using Loft and Sweep Repair imported geometry using SOLIDWORKS Surfacing tools  
Use surfaces to help you create complex parts  
Use a master part model to create different versions of your design

#### **Prerequisites:**

Attended the SOLIDWORKS Part Modeling course Attended the SOLIDWORKS Essentials course At least a few months of experience using the software

### **SOLIDWORKS Mold Design:**

The Mold Design course teaches you how to quickly generate the tooling for any given part and separate it into core and cavity components. This knowledge is very valuable for most mechanical designers, especially designers of molds, embossing dies, nests, and welding/checking fixtures. You also learn to use analysis tools for developing optimal parting lines, troubleshooting draft and undercut issues, plus importing and repairing third-party geometry.

#### **After the training you will be able to:**

- Create mold assemblies derived from your part designs
- Automate the production of the mold to save you design time
- Incorporate lifters, side cores and core pins in your mold design
- Design electrodes for your molds

#### **Prerequisites:**

Attended the SOLIDWORKS Part Modeling course or equivalent level of SOLIDWORKS knowledge



### **SOLIDWORKS Pipe and Tube Routing:**

The SOLIDWORKS Pipe and Tube Routing course explains how to create, edit and manage pipe and tube routes, from the critical routing components and their design requirements to the sub-assemblies that contain the routes.

#### **After the training you will be able to:**

- Create routed systems for pipe and tube applications
- Create your own library parts which can be dragged and dropped into your pipe and tube routes
- Create drawings of your routed systems with route information added

#### **Prerequisites:**

Attended SOLIDWORKS Essentials or equivalent level of knowledge  
Attended the SOLIDWORKS Assembly Modeling course or equivalent level of knowledge

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