

# SOLIDWORKS Drawings Course

**LENGTH: 3 DAYS**

**Prerequisites:** SOLIDWORKS Essentials

**Description:** This course teaches you how to make drawings of SOLIDWORKS parts and assemblies.



**Topics covered in this course are:**

## Introduction

- About This Course
- Prerequisites
- Course Design Philosophy
- About the Training Files
- Training Templates
- Accessing Training Templates in SOLIDWORKS
- Conventions Used in this Book
- Windows OS
- Use of Color
- More SOLIDWORKS Training Resources
- Local User Groups

## Lesson 1: Review of the Basics

- Review of Essentials
- Drawing System Options
- Beginning a New Drawing
- View Palette and Model Views
- Detailing Techniques
- Importing Design Annotations
- Using Model Items
- Dimensions in Drawings
- Section Views
- Detail Views
- Moving Drawing Views
- View Alignment
- Moving Dimensions
- Center Marks & Centerlines
- Assembly Drawing Review
- Bill of Materials Tables
- Adding Balloons
- Adding Sheets
- Standard 3 View

## Lesson 2: Understanding Drawing Templates

- Structure of a Drawing Document
- Drawing Document
- Drawing Sheet
- Sheet Properties
- Sheet Format
- Edit Sheet Format
- Understanding Drawing Templates
- Why are Drawings Structured this Way?
- Sheet Format Features
- Notes Linked to Properties
- Annotation Link Errors
- Drawing Template Design Strategy
- Designing a Drawing Template
- Understanding Document Properties
- Display Settings in Templates
- Sheet Properties in Templates
- Custom Properties in Templates
- Save as Template
- Defining Template Locations
- Model Templates
- Creating a Sample Model and Drawing

## Lesson 3: Customizing the Sheet Format

- Customize the Sheet Format
- Completing the Title Block Sketch
- Completing the Title Block Notes
- Tips for Locating Notes
- Adding a Company Logo
- Defining the Border
- Setting Anchors
- Exit Edit Sheet Format Mode
- Title Block Fields

## Lesson 4: Saving and Testing the Sheet Format File

- Understanding Sheet Format Properties
- Understanding Sheet Format Behavior
- Saving the Sheet Format
- Reload Sheet Format
- Defining Sheet Format Locations

- Testing the Sheet Format
- Testing Sheet Format Properties
- Testing Default Values

## Lesson 5:

### Creating Additional Sheet Formats and Templates

- Creating Additional Sheet Formats
- Drawing Templates with Sheet Formats
- Other Drawing Template Items
- Property Tab Builder
- The Property Tab Builder UI
- Defining Property Tab Template Locations
- Additional Property Tab Options
- Properties.txt File

## Lesson 6: Advanced Options for Drawing Views

- Advanced Drawing Views
- Showing Hidden Edges
- Drawing View Properties Dialog
- Broken-out Section View
- Editing Broken-out Section Views
- Auxiliary View
- Rotating Views
- Crop View
- Understanding View Focus
- Editing Crop Views
- Advanced Views for Assemblies
- Section Scope
- Alternate Position View
- Editing Alternate Position Views
- Using Configurations
- Using Display States
- Custom View Orientations
- New View
- Relative View
- 3D Drawing Views



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*Continued on Next Page*

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**Topics covered in this course are:**

*Continued from Previous Page*

## Lesson 7:

### Understanding Annotation Views

- Understanding Annotation Views
- Understanding Annotation Behavior
- What are Annotation Views?
- Annotations Folder
- Default Annotation Views
- Annotations View Visibility
- Insert Annotation View
- Editing Annotation Views
- Annotation Update

## Lesson 8:

### Advanced Detailing Tools

- Detailing Tools
- Annotation Views vs. Model Items
- Using Annotation Views in Existing Drawing Views
- Combining Annotation Views and Model Items
- Parametric Notes
- Dimension Types
- Chamfer Dimension
- Ordinate Dimensions
- Ordinate Dimension Options
- Baseline Dimensions
- Baseline Dimension Alignment
- Autodimension
- Arranging Dimensions

- Using Dimension Handles
- Aligning Linear Diameter Dimensions
- Dimension Styles
- Styles in the Property Manager
- Styles in the Dimension Palette
- Annotations in the Design Library
- Location Labels

## Lesson 9: Advanced Options for BOM Tables

- Tables in SOLIDWORKS
- Bill of Materials Properties
- Displaying the BOM Assembly Structure
- Modifying a Table
- Saving a Table Template
- Properties in BOM Tables
- BOM Quantity
- BOM Part Numbers
- Child Component Display
- BOM Component Options
- Balloon Indicator

## Lesson 10: Additional SOLIDWORKS Tables

- Additional SOLIDWORKS Tables
- Inserting a Hole Table
- Adjusting Hole Table Settings
- Splitting a Table
- Using a Revision Table
- Adding a Revision
- Leader Annotation Options
- Design Tables in Drawings

## Lesson 11: Additional Drawing Tools

- Reusing Drawings
- Open with a New Reference
- Save As with References
- Pack and Go
- Draw Compare
- Draw Compare Options
- SOLIDWORKS Design Checker
- SOLIDWORKS Task Scheduler



### Training Registration

View our upcoming training schedule and training locations.

[Training Calendar](#)

## Lesson 12: Managing Performance

- Managing Performance
- Performance Evaluation
- Open Progress Indicator
- Detailing Practices
- System Options & Document Properties
- Open Options
- Detached Drawings
- Loading the Model
- Hardware and Performance
- Additional Considerations
- Quick Reference Guide



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