

The background of the top section features a dark blue, semi-transparent image of a laptop. On the laptop screen, there is a 3D CAD model of a mechanical part, possibly a bracket or a handle, rendered in a light grey color. To the right of the laptop, another screen displays a finite element analysis (FEA) simulation of the same part, showing a color-coded stress distribution with blue representing low stress and red representing high stress. The overall scene is dimly lit, with the laptop's keyboard and trackpad visible in the foreground.

SOLIDWORKS
SOLIDWORKS Add-Ins
Training

Course Outline

SOLID  **PERTS**
by solidxperience

ENSURE YOUR SUCCESS IN 3D DESIGN WITH SOLIDWORKS

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SOLIDWORKS Composer – 3 days (21h)

1. Getting Started

- What is the SOLIDWORKS Composer Application?
- Notes on SOLIDWORKS Composer
- SOLIDWORKS Composer terminology
- SOLIDWORKS Composer user interface
- View
- Navigation Tools
- Updating Views
- Collaborative Actors
- Camera Views
- Transform
- Creating 2D Output
- View Mode/Animation Mode

2. Creating Cover and Detail Images

- Rendering tools
- Camera and Alignment tools
- Custom Rendering
- Digger

3. Creating an Exploded View

- Visibility tools
- Exploded View
- Collaborative Actors
- Styles
- Vector Graphics Output

4. Creating Additional Exploded Views

- Importing Files
- Paper Space
- Update views With Selected Actors
- Align Actors
- Explode Lines
- Custom Views
- Linking Between Views

5. Creating Bills of Material

- Bills of Material
- Vector Graphic Output
- Another BOM Table
- Assembly Level BOM
- Assembly Selection Mode

6. Creating a Marketing Image

- Selections
- Textures
- Lighting
- Scenes
- High Resolution

7. Creating an Animations

- Timeline Pane
- Location Keys

8. Creating Interactive Content

- Views for Animation
- Improving the Animation
- Digger Keys
- Selections in the Key Track
- Events
- Animating and Collaborative Actors

9. Creating a Walkthrough Animation

- Camera Keys
- Grids
- Adding Views to the Timeline

see Part 2 on next page »

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SOLIDWORKS Composer (Part 2)

10. Adding Special Effects to Animations

- Animation Library Workshop
- Animation Special Effects
- Assembly Selection Mode in Animations
- Scenarios

11. Updating SOLIDWORKS Composer Files

- Update an Entire Assembly
- Changing the Geometry of an Actor

12. Working with Projects

- Product Files
- Product Orientation

13. Publishing from SOLIDWORKS Composer

- Preparing a File for Publishing
- Publishing to PDF
- Publishing Inside Microsoft Word
- Publishing to HTML
- Linked SVG Files
- Publishing Multiple Views

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SOLIDWORKS Visualize – 2 days (14h)

1. CAD to SOLIDWORKS Visualize

- Rendering from CAD
- Importing to Visualize
- Render Selection
- Denoiser
- Appearances
- File Libraries
- Scenes
- Rendering

2. Import Settings and Appearances

- Import Settings Appearances
- Project Description
- Part Grouping
- Structure and Organization
- Selection Tools
- Object Manipulation
- Split
- Copy and Paste
- Appearance Types
- Textures
- Texture Mapping
- Appearance Type Parameters
- Merge Parts

3. Decals

- Decals
- Decal Feature
- Decals Depth
- Decal Mapping
- Blend Texture
- Multi-Layer Decal Process

4. Cameras

- Cameras
- Aspect Ratio
- Keep Above Floor
- Perspective
- Camera Orientation
- Grid Overlay
- Depth of Field
- Filters

5. Backplates, Environments and Lights

- Scenes
- New Cutting Plane
- Backplates
- Environments
- Lights

6. Productivity tools

- Multiple Views
- Render All Cameras
- Time Limit Rendering
- Configurations
- Exports
- Render All Configurations
- Render Queue
- Visualize Boost

Continued »

see Part 2 on next page »

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SOLIDWORKS Visualize (Part 2)

7. Animation and Grouping

- Animations
- Groups
- Animation Output
- Motion Blur
- Keyframe Animation

8. Camera animations

- Camera Animations
- Camera Movement with the triad
- Keyframe Properties

9. Animating Appearances, Scenes

- Appearance Animations
- Scene Animations

10. Alternative outputs

- Alternative Outputs
- Turntable
- Interactive Images
- Panorama View
- Sun Study
- 360° Camera

11. CAD to SOLIDWORKS Visualize

- Simulated physics
- Shake simulation
- Simulation manager
- Simulation states
- Vehicle simulation

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SOLIDWORKS Inspection – 1 day (7h)

**This training's duration is about half a day but we will complete it with personalized coaching on your models or examples files.*

1. Inspection Add-in

- What is SOLIDWORKS Inspection?
- Inspection project
- SOLIDWORKS Inspection manager
- Export inspection data
- Design revision
- Manual Ballooning
- Working with 3D documents

2. Standalone Application

- Overview
- User interface
- Inspection project
- Extracting characteristics
- General characteristic tools
- Table manager
- Managing bill of characteristics
- Grids
- Multiple Documents
- Publishing reports
- Drawing revisions

3. SOLIDWORKS Inspection Professional

- Overview
- Loading the inspection professional Add-in
- Measurements Input
- Publishing reports with inspection results
- CMM data import

Appendix A: Inspection Report Templates

- Inspection Report Templates
- Template Editor

Appendix B: Understanding Regular Expressions

- Regular Expressions

7. Appendix C: Glossary of Quality Terms

- Terminology

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SOLIDWORKS MBD – 1 day (7h)

1. Introduction to SOLIDWORKS MBD

- What is SOLIDWORKS MBD?
- Course Layout
- MBD Using Feature Dimensions
- Sharing 3D Views
- 3D PDF Capabilities
- MBD Using DimXpert
- DimXperts Capabilities
- eDrawings and MBD
- eDrawings Capabilities
- STEP 242 Files
- MBD and Assemblies
- Steps in the Process

2. Using Feature Dimension and Annotation Views

- Using Feature Dimensions with MBD
- Default Annotations Views
- Optimizing Settings
- Adding and Organizing Annotations
- Adding Reference Dimensions
- Modifying Dimensions
- Creating a Section Annotation View
- Editing an Annotation View
- Unassigned Items
- Creating an Annotation View
- Note Area
- Using Tables

3. Capturing 3D Views

- 3D Views
- 3D Views Tab
- Capture 3D View
- Activating and Modifying 3D Views
- Using 3D Views Options
- Publishing PMI
- Special 3D View Types
- Model Break View

4. 3D PDF Template Editor

- 3D PDF Template Editor
- Areas of the Template
- Text Types
- Other Template Aspects
- Building a Custom Template
- Saving and Storing Custom Templates
- Testing the Templates

5. Using DimXpert

- What is DimXpert?
- DimXpert Settings
- DimXpert Block Settings
- DimXpert Dimension Settings
- How DimXpert works
- Auto Dimension Scheme
- DimXpertManager
- Show Tolerance Status
- Modifying DimXpert Annotations
- Combining Dimensions
- Creating Multiple Schemes
- Manual DimXpert Annotations
- Feature Selector Toolbar
- Using DimXpert Dimension Tools
- Unique DimXpert Options

6. MBD and Assembly Models

- Assembly Models and MBD
- Assembly Level Dimensions
- Optimizing Settings in Assemblies
- Adding Assembly Annotations
- BOM Tables and Balloons
- Publishing Assembly PMI
- Additional MBD Tools

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SOLIDWORKS ToIAnalyst - 1 day (7h)

**This training's duration is about half a day but we will complete it with personalized coaching on your models or examples files.
**No books currently exist for the ToIAnalyst course.*

1. DimXpert

- DimXpert Overview
- Auto Dimension Scheme
- Datums
- Size Dimensions
- Location Dimensions
- Geometric Tolerances
- Tolerance Status
- DimXpert Options
- Using DimXpert Information in Drawings
- Pattern Feature

2. ToIAnalyst

- ToIAnalyst Overview
- Establishing the Measurement
- Assembly Sequence
- Assembly Constraints
- Analysing the Results
- Fixed/Floating Fasteners

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SOLIDWORKS CAM Standard – 2 days (14h)

1. SOLIDWORKS CAM Basics and User Interface

- What is SOLIDWORKS CAM?
- SOLIDWORKS CAM User Interface
- Process Overview
- SOLIDWORKS CAM Feature
- Tree Operation Plans
- Toolpaths

2. Automatic Feature Recognition (AFR) and Operation Modification

- Working with Features, Operations, and Toolpaths
- Automatic Feature Recognition
- Feature Strategy
- Modifying Operations
- Modifying Parameters
- Design Changes

3. Interactive Feature Recognition (IFR)

- Interactive Feature Creation
- 2.5 Axis Features
- Part Perimeter Feature
- Mill Part Setup
- Work Coordinate Offsets
- Selection Filters

4. Interactive Operations

- Interactive 2.5 Axis Mill Operations
- Save Operation Plan

5. Merging Features and Operations

- Machining Similar Features
- Create Group
- Combine Operations
- Link Operations

6. Avoid and Contain Areas

- Add Avoid and Contain Areas

7. Pattern Features and Mirror Toolpaths

- Patterning 160
- Mirror Toolpaths

8. Advanced Features and Operations

- Advanced Feature Creation
- Engrave Feature
- Curve Feature
- Multi-stepped Hole
- Case Study: Multi-stepped Hole Machining
- Tap and Thread Mill Hole Operation
- Case Study: Tap and Thread Mill
- Corner Round and Chamfer Machining
- Case Study: Corner Round and Chamfer Machining
- Multi Surface Feature
- Case Study: Multi Surface Feature Creation

9. Customizing the Technology Database

- SOLIDWORKS CAM Technology Database (TechDB)
- User Defined Tool
- Mill Machine
- Mill Tool
- Tool Crib
- Strategies

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SOLIDWORKS CAM Professional – 1 day (7h)

**The "SOLIDWORKS CAM Standard" training is required for this class.*

***Since our clients generally use only 50% of the training's content, this course is shortened to 1 day and is adjusted with personalized coaching based on your manufacturing process.
***If you want to get the whole course content, we can offer this class on a 2 days schedule. Please contact your account manager.*

1. SOLIDWORKS CAM Configurations

- SOLIDWORKS CAM Product Review
- SOLIDWORKS CAM Configurations
- Working With CAM Configurations

2. High Speed Machining (VoluMill™)

- VoluMill Overview
- VoluMill Settings
- VoluMill Technology Expert

3. Assembly Machining

- SOLIDWORKS CAM Assembly Mode
- Machine Setup
- Part Manager
- Stock Manager
- Assembly Machining - Programming with Subroutines
- Machining - Multiple Parts
- Import Part Data
- Split Instance
- Split Setup

4. 3 Plus 2 Machining

- 3 Plus 2 Machining (Indexing)
- Indexing

5. Turning Basics

- SOLIDWORKS CAM Turning
- Process Overview
- Setup
- Chuck/Fixture
- Stock
- Machinable Features
- New Turn Feature

6. Chucks, ID Features and Operations

- Section Method
- Double Chucking
- Modifying Feature and Operation Parameters
- Editing toolpaths

7. Probing

- Introduction to Probing

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Introduction to Visual Basic.net – 2 days (14h)

1. Introduction

2. The Basic Interface

3. Code

- Types of variables
- Definition of variables
- The message box

4. Compilation

5. VB Tools

- Benchmarks
- Breakpoints
- Keyboard Shortcuts

6. Loops

- For...Next
- Do...Loop
- Force output

7. If Statements

8. The Select Case Statement

9. The Interface of Your Programs

- Interface Language
- Activation checks
- Other interface parameters

10. Posts

- Simple message
- Message to capture the response

11. Goto

12. Conventions

- Variable names
- Method names
- Argument names

13. Variables List

- The array
- La collection

14. The Timer Control

15. Operators

16. The Text File

- Reading a text file
- Writing to a text file

17. File Manager

- File operations
- Operations on files

18. Creating a Method

- Sub-type method
- The method of type function

19. Manipulate the Registry

- Management options in the registry

20. Windows

21. Operations on Text

- Text comparison
- Conversion values
- Extracting a portion of text
- Extracting data from a file path
- Splitting text
- Replacement values

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SOLIDWORKS API Fundamentals – 2 days (14h)

**The "Introduction to Visual Basic.net" training is required for this class.*

1. Using the Macro Recorder

- Macro Recording
- Macro Toolbar
- Understanding How Macro Code Works
- Understanding How to Call Members on API interfaces
- Passing Parameters
- Cleaning Up Code
- Adding Forms to a Macro

2. The API Object Model

- SOLIDWORKS API Object Model
- Application Objects
- Connecting to New Documents
- Connecting to Existing Documents

3. Setting System Options and Document Properties

- User Preferences – System Option
- User Preferences – Document Properties
- Locating the Correct APIs and Enumeration Values
- User Preferences Tables for System Option, Document
- Properties and Menu Items

4. Automating Part Design

- Automation Tool for Parts

5. Assembly Automation

- Automation Tool for Assemblies

6. Drawing Automation

- Automating Drawing Creation

7. Selection and Traversal Techniques

- Programming with a Selected Object
- The SOLIDWORKS BREP Model
- Body and Face Traversal
- Feature Manager Traversal

8. Adding Custom Properties and Attributes

- Custom Properties
- Configurations with Custom Properties
- File Summary Information
- Document Attributes
- The Attribute Objects
- Face Attributes

9. The SOLIDWORKS API SDK

- The API SDK
- Creating a VB.NET Add-In
- Creating a C# Add-in
- C++ Add-Ins
- Choosing a Programming Language

10. Customizing the SOLIDWORKS User Interface

- Customizing the UI With VB.NET
- Understanding The Add-in Code
- Property Pages
- Property Page Groups and Controls
- Removing Menus and Toolbars
- Other Areas of Customization

11. Notification

- Notification
- Notification in VBA
- Simple Notification
- Using Notifications in .NET

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DraftSight – 1 day (7h)

1. User Interface

- Pointing Device - DraftSight Window
- Title Bar - Pull-Down Menu
- Toolbars - Graphic Windows
- Command Line - Status Bar
- Shortcut Menus - Dialog Boxes
- Keyboard Options - Help Menu

2. Creating a Simple Drawing

- New - Line
- Delete Command - Rectangle
- Circle -Drafting Settings
- Arc - Undo and Redo
- Polygon- Drawing Setup

3. Coordinates

- Coordinated System - CCS Icon
- Inquiry - Units
- Coordinate Entry - Snap from Entity Snap
- Drawing Boundary

4. Modify Commands

- Selecting Entities
- Move Command - Copy Command
- Offset Command - Mirror Command
- Rotate Command - Scale Command
- Trim Command - Extend Command

5. Properties and Layers Toolbars

- Layer Control - Activate Layer Command
- Color Control Command - LineStyle Control Command
- LineWeight Control Command
- Layers Manager Command
- Property Painter
- Properties Command

6. Drawing Files

- New – Save - Open
- File Management - File Utilities

7. Using Schematic Annotations

- Point - Point Format
- Mark Divisions - PolyLine
- Explode - Edit PolyLine
- Blocks -Insert Block
- Clean - ExportDrawing
- Hatch - Pattern
- Stretch - Change Length
- Split - Fillet- Chamfer
- EntityGrips - Egrip Settings

8. View Commands

- Dynamic Pan - Dynamic Zoom
- Zoom Window - Zoom Previous
- Zoom Options - Rebuild
- Named Views - Multiple ViewTiles

9. Text and Dimensions

- Simple Note – Note
- Text Style – Edit Annotation
- Find and Replace – Spell Check
- Dimensions – Dimensions Style
- Edit Dimension Location - Edit Dimension Text
- Edit Dimension Properties

10. Drawing Output and Layout

- Drawing Layout – View Tiles
- Working with Viewports on Sheets - Print

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Power Surfacing – 1 day (7h)

1. Basic Operations

- Basic Manipulations
- Extrude
- Insert Loops

2. Operations (Continued)

- Hard Line
- Define Boundary

3. SOLIDWORKS Body References

- Import References
- Constrain to...
- Auto Update All Constrains

4. Spatial Constrains

- Retain Offset Constrain
- Retain Ratio Constrain

5. Advanced Operations

- Advanced Manipulations
- Thicken
- Symmetry

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