FORMATION
Credly
CERTIFIÉE

SOLIDWORKS ADD-INS TRAINING

COURSE OUTLINE

by **SXP**

TABLE OF CONTENTS

COURSE OUTLINE / SOLIDWORKS ADD-INS

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 Views
- 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 Materials

- Bills of Materials
- Vector Graphics Output
- Another BOM Table
- Assembly Level BOM
- Assembly Selection Mode

6. Creating a Marketing Image

- Selections
- Textures
- Lighting
- Scenes
- High Resolution Image

7. Creating anA nimations

- 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
- Additional Camera Functionality

Part 2 →

Course Objectives : At the end of each course, students will know the capabilities of the software and will be able to use the learned features.
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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

- What are Projets?
- Product Files
- Product Orientation

13. Publishing from SOLIDWORKS Composer

- Preparing a File for Publishing
- Publishing to PDF
- Publishing Inside Microsoft PowerPoint
- 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
- Color Picker
- 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 Parameters
- Merge Parts

3. Decals

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

4. Cameras

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

5. Backplates, Environments and Lights

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

6. Productivity tools

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

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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 and Scene Animations*
- *Scene Animations*

10. Alternative outputs

- Alternative Outputs
- Turntable
- Interactive View
- Panoramic View
- Sunlight Animation
- 360° Camera

11. Simulations

- *Simulated physics*
- *Shake simulation*
- *Simulation manager*
- *Simulation states*
- *Vehicle simulations*
- *Physics Animations*

SOLIDWORKS INSPECTION – 1 DAY (7H)

*This training's duration is about half a day but we will complete it with personnalized 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

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

3. SOLIDWORKS Inspection Professional

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

4. Appendix A: Inspection Report Templates

- Inspection Report Templates
- Template Editor

5. Appendix B: Understanding Regular Expressions

- Regular Expressions

6. 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?
- 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

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 CAM STANDARD – 2 DAYS (14H)

1. SOLIDWORKS CAM Basics and User Interface

- What is SOLIDWORKS CAM?
- SOLIDWORKS CAM User Interface
- 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
- Create operations
- Save Operation Plan

5. Merging Features and Operations

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

6. Avoid and Contain Areas

- Adding "Avoid" and "Contain" Areas

7. Pattern Features and Mirror Toolpaths

- Patterning
- Mirror Toolpaths

8. Advanced Features and Operations

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

9. Customizing the Technology Database

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

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PMT2565-ENG

SOLIDWORKS CAM PROFESSIONAL – 1.5 DAY (10H)

*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 personnalized 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
- Part Manager
- Assembly Machining - Programming with Subroutines
- Machining - Multiple Parts
- Machining Split Instance
- Split Setup

4. 3 Plus 2 Machining

- 3 Plus 2 machining (Indexing)
- Assembly machining with a tombstone

5. Turning Basics

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

6. Chucks, ID Features and Operations

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

7. Modifying Feature and Operation Parameters

- Custom chuck, OD and thread features
- Editing toolpaths

8. Probing

- Introduction to Probing

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Training Course : Training is given in class at SolidXperts or online where each student has access to a workstation or online product version.
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PMT2566-ENG

SOLIDSTEEL ADVANCED ENGINEERING PACKAGE / 2,5 DAYS (18H)

Prerequisites: Students should have a general knowledge of SOLIDWORKS.
Students should have experience creating 3D sketches, parts and assemblies.

1. Introduction

- Introduction to the use of the software
- User-specific setting

2. Profiles & Connections

- Profiles and profile cuts
- Creation of individual profile cross-section and sizes
- Typical steel connections
- Bolted connections

3. Assembly Manager

- Introduction to the Assembly Manager
- Working with the Assembly Manager

4. Stairs & Railings

- Working with stairs and railings
- Creation of individual railing templates

5. Administration & Management

- Standard parts management
- Administration of the bolt manager
- Teaching in bolt sets

6. BOM & Drawings

- Changing the drawing templates
- Creation of BOM templates
- Detection of identical parts
- DXF export for all sheet metal parts

7. Advanced Tools

- License server administration

Course Objectives : At the end of each course, students will know the capabilities of the software and will be able to use the learned features.
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SOLIDSTEEL DESIGN PACKAGE / 3 DAYS (21H)
Prerequisites: Students should have a general knowledge of SOLIDWORKS.
Students should have experience creating 3D sketches, parts and assemblies.

1. Introduction

- Introduction to the use of the software
- User-specific setting

2. Profiles & Connections

- Profiles and profile cuts
- Creation of individual profile cross-section and sizes
- Typical steel connections
- Bolted connections

3. Assembly Manager

- Introduction to the Assembly Manager
- Working with the Assembly Manager

4. Stairs & Railings

- Working with stairs and railings
- Creation of individual railing templates

5. Administration & Management

- Standard parts management
- Administration of the bolt manager
- Teaching in bolt sets

6. BOM & Drawings

- Changing the drawing templates
- Creation of BOM templates
- Detection of identical parts
- DXF export for all sheet metal parts

7. Industrial Facades & Roof

- Workflow overview

8. Advanced Tools

- SDNF interface
- Bidirectional data exchange with 3D structural analysis software
- License server administration

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SOLIDSTEEL DSTV ASSISTANT / 0,5 DAY (4H)
Prerequisites: Students should have a general knowledge of SOLIDWORKS.
Students should have experience creating 3D sketches, parts and assemblies.

1. Introduction

- Activation of the SOLIDWORKS add-in
- Overview of the interface

2. Database

- Files locations / Path settings
- Naming schematics
- Database settings (Part 1)

3. Creation of NC Data

- Preparation of parts & assemblies for the Export
- Export NC files

4. Analyzed Parts

- SolidSteel parametric profiles
- Identified/Unidentified solid bodies
- Change / Provide information
- Quickstart & Quick export for assembly
- Export of analyzed parts
- Signatures, markings & powder lines

5. Costing Module

- Configuring database
- Creating / Changing a machine
- Creating setup rules & new tools
- Creating a costing analysis

6. General Settings

- Dimension references
- Contour settings
- Filter settings
- Export template settings

7. Adminstration

- Database settings (part 2)
- Database management

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
    - The 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 Options
- 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. Notifications

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

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PMT2515-ENG

DRAFTSIGHT ESSENTIALS / 1,5 DAYS (10H)

*This course is aimed at new users of 2D CAD drawing software.
*Not suggested for experienced users of software such as AutoCAD, TurboCAD, etc.

1. User Interface

- What is DraftSight?
- The User Interface
- Stages in the Process
- Pointing Device
- Title Bar
- Toolbars
- Dock and Undock
- Tool palettes - Customizing

2. View Commands

- Viewing Drawings in DraftSight
- Stages in the Process
- Dynamic Pan
- Dynamic Zoom
- Zoom Window
- Zoom Fit
- Rebuild
- Display Quality
- Zoom Previous
- Named Views
- View Tiles
- Viewports

3. Coordinates

- Coordinated System
- Cartesian Coordinates
- Inquiries
- Units
- Base Angle
- Coordinate Entry
- Quick Input
- Entity Snap
- Drawing Boundary

4. Creating a Simple Drawing

- DraftSight Drawing Basics
- New Drawings
- Lines
- Delete
- Selection Methods
- Rectangle
- Circle
- Undo / Redo
- Arc
- Polygon

5. Modifying Entities

- Modifications
- Move
- Rotate
- Mirror
- Stretch
- Copy
- Scale
- Quick Modify
- Power Trim

6. Properties and Layers

- Layers
- Layer States
- Locked Layers
- Layer Manager
- Entity Properties
- Property Painter
- Merge Layers

7. Dimensions

- Dimensions
- Dimension Styles
- Smart Dimension
- Linear Dimension
- Angular Dimension
- Diameter Dimension
- Dimension Palette
- Continue Dimensions
- Split Dimension

Part 2 →

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PMT2480-ENG

DRAFTSIGHT ESSENTIALS (PART 2)

8. Text

- Text
- Text Styles
- Simple Notes
- Notes
- Note Formatting
- Smart Leaders
- Curved Text
- Find and Replace
- Spell Check

9. Blocks

- Blocks
- Stages in the Process
- Make Blocks
- Paste as Block
- Insert Block
- Edit Component
- Assign Attributes
- Update Block Attributes
- Block Attributes Display Mode
- Edit Attributes

10. Custom Blocks

- What are Custom Blocks?
- Edit Blocks
- Mirror Elements
- Mirror Activity
- Visibility States

11. Entity Groups

- Creating Entity Groups
- Edit Entity Groups

12. Printing

- Printing in DraftSight
- Print Previews
- Print Configurations
- Quick Print
- Manual setup
- Additional Options
- Style Table

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