

The background of the top section features two laptops. The laptop on the left displays a 3D wireframe model of a mechanical part. The laptop on the right shows a 3D finite element analysis (FEA) simulation of a similar part, with a color gradient from blue to red indicating stress distribution. A large, semi-transparent SolidWorks logo is overlaid on the left laptop. The text 'SOLIDWORKS Add-Ins Training' is centered over the laptops in a white, sans-serif font.

**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

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- 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

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

### 3. Creating an Exploded View

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

### 4. Creating Additional Exploded Views

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

### 5. Creating Bills of Material

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- 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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**Instructor :** SolidXperts trainers are Certified SolidWorks Instructors (CSWI) and authorized by Emploi-Québec.

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## SOLIDWORKS Composer (Part 2)

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**10. Adding Special Effects to Animations**

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

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**11. Updating SOLIDWORKS Composer Files**

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

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**12. Working with Projects**

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- Product Files
- Product Orientation

---

**13. Publishing from SOLIDWORKS Composer**

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- 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

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

### 2. Import Settings and Appearances

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- 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

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

### 4. Cameras

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

### 5. Backplates, Environments and Lights

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

### 6. Productivity tools

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

*see Part 2 on next page »*

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**SOLIDWORKS Visualize (Part 2)****7. Animation and Grouping**

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

**8. Camera Animations**

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

**9. Animating Appearances, Scenes**

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- Appearance Animations
- Scene Animations

**10. Alternative outputs**

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

**11. Simulations**

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

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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

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- 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

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

### Appendix A: Inspection Report Templates

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- Inspection Report Templates
- Template Editor

### Appendix B: Understanding Regular Expressions

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- Regular Expressions

### 7. Appendix C: Glossary of Quality Terms

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- Terminology

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## SOLIDWORKS MBD – 1 day (7h)

### 1. Introduction to SOLIDWORKS MBD

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- 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

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- 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 ToAnalyst - 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 ToAnalyst 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. ToAnalyst

---

- ToAnalyst 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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PMT2266-ENG

## 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

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- 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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**Instructor** : SolidXperts trainers are Certified SolidWorks Instructors (CSWI) and authorized by Emploi-Québec.  
**Course Materials** : One or more training manuals are included with the training course.  
**Attestation** : A certificate will be given to each student at the end of the course to attest to the successful completion of the requirements for the course.