





TECHNICAL COMMUNICATION - TRAINING INDEX

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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 Bill of Materials

- Bill of Materials
- 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
- Grid
- Adding Views to the Timeline
- → Continued...

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

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

Methodology: Training is based on case studies demonstrated by the instructor. At the end of each lesson, time will be given for exercises.

Competences Evaluation: During the class work, the instructor will correct the exercises on demand and explain the solutions to the entire class if needed.

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

Course Materials: One or more training manuals are included with the training course.

Attestation: A certificate will be given to the student at the end of the course to attest the successful completion of the requirements for the course.



SOLIDWORKS Composer (continued...)

10. Adding Special Effects to Animations

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

11. Updating SOLIDWORKS Composer

- 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



SOLIDWORKS Inspection – 1 Day (7h)

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

Appendix C: Glossary of Quality Terms

Terminology



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
- Supplemental Tutorials

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