

SOLIDWORKS Model Based Definition (MBD)

Length: 1 Day

Prerequisite: SOLIDWORKS Essentials

Description: SOLIDWORKS MBD teaches the user how to use the SOLIDWORKS MBD (Model Based Definition) software to define, organize, and publish 3D Product Manufacturing Information (PMI) including 3D model data in industry-standard file formats.

Course Syllabus

Introduction

- About This Course
- Windows 7
- Use of Color
- More SOLIDWORKS Training Resources

Lesson 1 - Introduction to SOLIDWORKS MBD

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

Lesson 2 - Using Feature Dimensions and Annotations

- Using Feature Dimensions with MBD
- Default Annotation 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
- Notes Area

Lesson 3 - Capturing 3D Views

- 3D Views
- 3D Views Tab
- Capture 3D View
- Activating and Modifying 3D Views
- Using Multiple Annotation Views
- Publishing PMI
- Special 3D View Types
- Model Break View
- Publish eDrawings File

Lesson 4 - 3D PDF Template Editor

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

Lesson 5 - Using DimXpert

- What is DimXpert?
- DimXpert Settings
- DimXpert Block Tolerances
- DimXpert Dimension Settings
- How DimXpert Works
- Auto Dimension Scheme
- DimXpertManager
- Show Tolerance Status
- Modifying DimXpert Annotations
- Combining Dimensions





- Publish using Default Views
- Creating Multiple Schemes
- Manual DimXpert Annotations
- Feature Selector Toolbar
- Using DimXpert Dimension Tools
- Unique DimXpert Options
- Supplemental Tutorials

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

Lesson 6 - MBD and Assembly Models

- Assembly Models and MBD



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