



Autodesk Inventor 2010 Cable and Harness Design

Learn the fundamental principles and recommended workflows for creating and documenting 3D electrical parts and wire harness designs using Autodesk® Inventor® 2010 software. Users learn how to add electrical components, cables, and wires to a design, route wires through an assembly to create a harness, and create ribbon cables. Users also learn how to document the wire harness assembly in drawings and generate reports used to build the wire harnesses. Hands-on exercises representing real-world, industry-specific design scenarios are included.

Objectives

To teach users the recommended workflows and basic skills needed to design and document 3D electrical parts and wire harness designs using Autodesk Inventor 2010.

Duration

2 days

Who should attend?

This class is designed for Experienced Autodesk Inventor users.

Pages

370

Typical Schedule

Unless otherwise noted on your class registration e-mail, this class starts each day at 9:00 am and ends at 4:00 pm.

Prerequisites

Before using this guide, users should have a working knowledge of the following:

- Autodesk Inventor parametric part and assembly design.
- Mechanical design validation or mechanical engineering principles (recommended but not necessary).
- Microsoft® Windows® Vista or Microsoft® Windows® XP.

Outline

Getting Started Creating Cable and Harness Design

- Creating Cable and Harness Designs

Wire a Harness Assembly

- Adding Wires and Cables
- Routing Wires and Cables
- Importing Wire and Cable Data
- Adding Ribbon Cables

Refine a Cable and Harness Design

- Modifying Wires, Cables, Segments, and Ribbon Cables
- Working with Splices
- Working with Virtual Parts

Communicate the Design

- Creating Drawing Views of Cable and Harness Designs
- Annotating Nailboards
- Exporting and Reporting Design Data

Configure Library and Report Configuration Files

- Library Definitions and Library Files
- Configuration Files for Reports, Imports, and Exports

Create, Author, and Publish Electrical Content

- Defining Electrical Parts and Connectors
- Managing Libraries
- Creating Library Content
- Managing Library Content

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