
Course Title: Inventor – Cable and Harness Design

Course Code: INV-2CHD

Duration: 1 Day

Courseware Description

Learn the fundamental principles and recommended workflows for creating and documenting 3D electrical parts and wire harness designs using Autodesk® Inventor® 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 Provide users with a thorough understanding of the principal 3D design, validation, and documentation processes necessary for developing products using Autodesk Inventor.

Who Should Attend

Experienced Autodesk Inventor users

Prerequisites

- Completion of **INV-1** course or equivalent knowledge of Inventor parametric part and assembly design.
- Drafting, design, or mechanical engineering principles.
- Microsoft® Windows® 7, Windows® Vista or Microsoft® Windows® XP.

Course Outline

- Getting Started Creating Cable and Harness Designs
- Adding Wires and Cables
- Routing Wires and Cables
- Importing Wire and Cable Data
- Adding Ribbon Cables
- Modifying Wires, Cables, Segments and Ribbon Cables
- Working with Splices
- Working with Virtual Parts
- Creating Drawing Views of Cable and Harness Designs
- Annotating Nailboards
- Exporting and Reporting Design Data
- Library Definitions and Library Files
- Configuration Files for Reports, Imports and Exports
- Defining Electrical Parts and Connectors
- Managing Libraries
- Creating Library Content