



REPRO PRODUCTS

Class Outline & Syllabus

Autodesk Inventor: Cable and Harness Design

Course Length: 2 days (16 hours)

Objective: 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

Cost: \$325 per day plus a \$100 fee for a manual which must be purchased for enrollment.

The class breakdown will be as follows:

Day 1

- Creating Cable and Harness Designs
- Adding & Routing Wires and Cables
- Importing Wire and Cable Data
- Adding Ribbon Cables
- Modifying Wires, Cables, Segments, and Ribbon Cables
- Working with Splices
- Creating Drawing Views of Cable and Harness Designs

Day 2

- Annotating Nailboards
- Exporting & Reporting Design Data
- Library Definitions & Library Files
- Configuration Files for Reports, Imports, and Exports
- Defining Electrical Parts & Connectors
- Managing Libraries & Creating Library Content

- Lunch is included.
- Class is from 8:30 a.m. to 5:00 p.m.
- Students will receive a certificate upon completion.
- After completion of an entire class, students may audit the same class for one year, if space is available in the class.
- The entire class is purchased at one time, but individual days may be attended sequentially over several months.

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