

## Autodesk Inventor training course - Cable and Harness Design

### Course Description

Teaches the fundamental principles and recommended workflows for creating and documenting 3D electrical parts and wire harness designs using Autodesk® Inventor™ by teaching how to add electrical components, cables, and wires to a design, route wires through an assembly to create a harness, and create ribbon cables. Delegates also learn how to document the wire harness assembly in drawings and generate reports used to build the wire harnesses. Delegates work through hands-on exercises representing real-world, industry-specific design scenarios.

**Course duration:** 2 days  
**Courseware provided:** 370 pages

### Objectives

Upon completion of this course delegates will be able to use the recommended workflows and basic skills needed to design and document 3D electrical parts and wire harness designs using Autodesk Inventor.

### Who Should Attend?

Experienced Autodesk Inventor users.

### Pre-requisites

Delegates should have completed an *Autodesk Inventor Essentials* course or be familiar with the concepts taught in this course, and have a working knowledge of parametric part and assembly design using Autodesk Inventor.

An understanding of mechanical design validation or mechanical engineering principles is recommended but not essential.

# Autodesk Official Training Course

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## Course Outline

### Day 1

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#### 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

### Day 2

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#### 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

**Please note:** Course topics may be modified by the instructor based upon knowledge and skill level of the course participants.

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