



# Autodesk Inventor Cable and Harness Design

## Course Length: 2 Days

This training course provides instructions in the use of the Autodesk® Inventor® Cable and Harness environment. Through a hands-on, practice-intensive curriculum, students acquire the knowledge needed to design physical cables and harnesses for electrical systems in almost any kind of product or machine. With specific tools to incorporate cable and harness into digital prototypes, the Autodesk Inventor Cable and Harness Design software enables you to calculate accurate path lengths, avoid small-radius bends, and help ensure that electrical components fit into the mechanical assembly before manufacturing.

## Topics Covered:

- Describe the functionality of Cable and Harness and the basic workflow to add and document cable and harness designs.
- Wire a harness assembly by adding or importing wires and cables, adding ribbon cables, adding route segments, and routing wires and cables through the segments.
- Refine a cable and harness design by editing the wires, cables, routes, or cable ribbons; by adding and editing splices; or by adding and editing virtual parts.
- Communicate your cable and harness to others by creating and annotating 2D drawings and exporting the design data.
- Create and manage the library file and configuration files.
- Create, author, and publish electrical parts and connectors to a custom Content Center library.

## Prerequisites:

This training course is designed for experienced users of the Autodesk Inventor software. The following is recommended:

Course description shown for Autodesk Inventor 2021. Topics, curriculum, and/or prerequisites may change depending on software version.

- Users should have completed the Autodesk Inventor Introduction to Solid Modeling training course or have an equivalent understanding of the Autodesk Inventor user interface and working environments.
- Knowledge of part modeling, assembly modeling, and drawing view creation and annotation, is recommended.

## Learning Guide Contents

### Chapter 1: Getting Started Creating Cable and Harness Designs

- Lesson: Creating Cable and Harness Designs

### Chapter 2: Wire a Harness Assembly

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

### Chapter 3: Refine a Cable and Harness Design

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

### Chapter 4: Communicate the Design

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

### Chapter 5: Configure Library and Report Configuration Files

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

Course description shown for Autodesk Inventor 2021. Topics, curriculum, and/or prerequisites may change depending on software version.

## Chapter 6: Create, Author, and Publish Electrical Content

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

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## Cancellation Policy

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