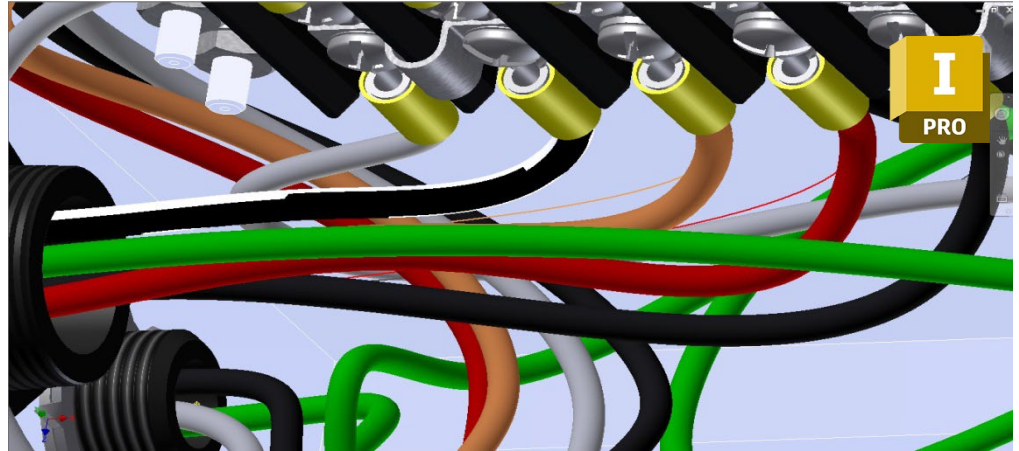


# Inventor Cable and Harness Design

## Training course outline

Teaches how to create 3D electrical parts, ribbon cables and wire harness designs in Autodesk Inventor.



### Course summary

Teaches the fundamental principles behind cable and harness design, and the techniques for creating 3D electrical parts, ribbon cables and wire harness designs. Sessions include:

- Adding electrical components, cables and wires to a design.
- Routing wires through an assembly to create a harness.

### Duration

Two days.

### Who should attend?

Existing Inventor users looking to expand their knowledge to design cable and harness systems.

### Prerequisites

You should have a good working knowledge of Inventor for 3D parametric modelling, i.e. be familiar with the topics taught in our *Inventor Essentials* course (see [armada.co.uk/inventor/syllabus](http://armada.co.uk/inventor/syllabus)).

### In-class or live online

You can attend in-person at our centres, or participate live online from your place of work or home.

To read about our approach to online training, see [armada.co.uk/liveonline](http://armada.co.uk/liveonline).

### General information

Armada is a long-standing Autodesk authorised Training Centre (ATC), and our courses are accredited by Autodesk.

Courses are hosted by Autodesk Certified Instructors (ACIs) with vast experience of using the application professionally.

Whilst attending training at our centres, you'll have the use of a computer running licensed software to practice the techniques taught.

Refreshments and lunch are provided.

Course fees can be paid by card or bank transfer. We accept purchase orders from UK-registered companies and public sector organisations.

### Course materials and certificate

You'll receive:

- A comprehensive training guide and practice files.
- An e-certificate confirming successful completion of an accredited *Inventor Cable and Harness Design* course.

### Method of delivery

Training is designed for the busy professional, being short and intensive and combining lecture and demonstration. Practical exercises carried out under guidance help you learn the techniques taught.

You have ample opportunity to discuss specific requirements with the trainer.

### After course support

Following training, you're entitled to 30 days' email support from your trainer.

### Further information

See [armada.co.uk/course/inventorcableandharness](http://armada.co.uk/course/inventorcableandharness).

### Course syllabus

See over.

# Course syllabus

Session	Topics
<b>Getting started</b>	Creating a cable and harness design Reviewing and navigating a design
<b>Wiring a harness assembly</b>	Adding wires and cables Routing wires and cables Importing wire and cable data Adding ribbon cables
<b>Refining a cable and harness design</b>	Modifying wires, cables, segments and ribbon cables Editing the display, setting and properties Adding and modifying points Checking the bend radius Working with splices Working with virtual parts
<b>Communicating the design</b>	Creating drawing views of cable and harness designs Annotating nailboards Exporting and reporting design data Producing reports detailing the diameters, parts, counts and other data required to build the wire harness

Session	Topics
<b>Configuring library and report configuration files</b>	Library definitions and library files Configuration files for reports, imports and exports
<b>Creating, authoring and publishing electrical content</b>	Defining electrical parts and connectors Managing libraries Creating a custom library Creating library content Authoring an electrical part Publishing to the content centre Managing library content Copying and moving content Adding a column to a part family Editing family data in Excel Creating family members using material guide