



## SIEMENS SOLID EDGE ELECTRICAL DESIGN TRAINING

### Objectives

This 3-day training course provides an overall view of the concepts and techniques of creating a schematic diagram and wire harness design using the latest version of Siemens Solid Edge wiring design and harness design software. After completing this course trainee will be able to:

- ✓ Use Solid Edge wiring design and harness design software for daily working process
- ✓ Route wiring and place components in 3D assembly models
- ✓ Analyze your models to calculate the correct wire lengths and wire harness designs
- ✓ Using library parts and symbols

### Training Programme Day 1

Chapter	Topic	Duration	Time
<b>Chapter 1</b> <b>Parts and Symbol Management</b>	<b>Lesson 1 : Introduction to Solid Edge Electrical Parts</b> <ul style="list-style-type: none"> <li>• Familiarization with the Library Tool</li> <li>• Library Part Search</li> </ul>	<b>2-Hour</b>	<b>09.00 AM - 11.00 AM</b>
	<b>Lesson 2 : Component Entry</b> <ul style="list-style-type: none"> <li>• Creating Wires</li> <li>• Creating Multicores</li> <li>• Creating a Twisted Pair</li> <li>• Creating a Screened Multicore</li> <li>• Creating a Connector</li> <li>• Creating a Device</li> <li>• Creating a Harness Connector Footprint</li> <li>• Creating a Component Report</li> </ul>	<b>2-Hour</b>	<b>11.00 AM – 01.00 PM</b>
	<b>Lesson 3 : Library Maintenance</b> <ul style="list-style-type: none"> <li>• Copying Components</li> <li>• Changing Component Status</li> <li>• Deleting a component</li> <li>• Exporting and Importing a Component Library</li> </ul>	<b>1-Hour</b>	<b>02.00 PM – 03.00 PM</b>
	<b>Lesson 4 : Creating Basic Symbols</b> <ul style="list-style-type: none"> <li>• Navigating Through a Symbol Library</li> <li>• Creating a symbol library</li> <li>• Populating a New Symbol Library</li> </ul>	<b>2-Hour</b>	<b>03.00 PM – 05.00 PM</b>

Training Programme Day 2

Chapter	Topic	Duration	Time
Chapter 2 : Solid Edge Wiring Design	<b>Lesson 1 : Introduction to Solid Edge Electrical Wiring Design</b> <ul style="list-style-type: none"> <li>Getting started</li> </ul>	1-Hour	09.00 AM - 10.00 AM
	<b>Lesson 2: Creating Wiring Designs</b> <ul style="list-style-type: none"> <li>Creating a Project and Wiring Design</li> <li>Adding Devices and Connectors</li> <li>Adding Wires to a Wiring Diagram</li> <li>Running Drcs and generating reports</li> </ul>	2-Hour	10.00 AM – 12.00 PM
	<b>Lesson 3: Advanced Wire designs</b> <ul style="list-style-type: none"> <li>Adding multicores</li> <li>Advanced wire design functions</li> </ul>	1-Hour	12.00 PM - 01.00 PM
	<b>Lesson 4: Devices</b> <ul style="list-style-type: none"> <li>Add In-Line Connectors to a Wiring Diagram</li> <li>Creating duplicate objects</li> <li>Editing Style set cross references</li> <li>Find and Replace</li> </ul>	1-Hour	02.00 PM – 03.00 PM
	<b>Lesson 5: Options and Design Management</b> <ul style="list-style-type: none"> <li>Creating Options</li> <li>Applying Style sets</li> <li>Copying Designs and move objects</li> <li>Printing designs</li> <li>Electrical Simulation</li> </ul>	1-Hour	03.00 PM – 04.00 PM
	<b>Lesson 6 : Bridging data in and out of Solid Edge Electrical</b> <ul style="list-style-type: none"> <li>Setting up connected mode</li> <li>Bridging out data from Solid Edge Electrical.</li> </ul>	1-Hour	04.00 PM – 05.00 PM

Training Programme Day 3

Chapter	Topic	Duration	Time
Chapter 3 : Harness Design	<b>Lesson 1 : Introduction to Solid Edge Harness Design</b> <ul style="list-style-type: none"> <li>Getting started with harness design</li> </ul>	1-Hour	09.00 AM - 10.00 AM
	<b>Lesson 2: Harness Creation</b> <ul style="list-style-type: none"> <li>Create a New Harness Design</li> <li>Create a Branch Layout</li> <li>Adding Components to the Diagram</li> <li>Adding Wires and Multicores</li> <li>Adding Insulation</li> </ul>	1-Hour	10.00 AM– 11.00 PM
	<b>Lesson 3 : Design Changes</b> <ul style="list-style-type: none"> <li>Copying a Design</li> <li>Adding extra components</li> <li>Experimenting with adding grip points and rotating the harness</li> </ul>	1-Hour	11.00 PM - 12.00 PM
	<b>Lesson 4 : Cavity Component Management</b> <ul style="list-style-type: none"> <li>Cavity component management</li> </ul>	1-Hour	12.00 PM - 01.00 PM
	<b>Lesson 5 : Additional Functionality</b> <ul style="list-style-type: none"> <li>Adding Dimensions</li> </ul>	1-Hour	02.00 PM– 03.00 PM
	<b>Lesson 6 : Backshells and Modular Connectors</b> <ul style="list-style-type: none"> <li>Defining a Backshell (Optional)</li> <li>Modular Connectors</li> </ul>	1-Hour	03.00 PM– 04.00 PM
	<b>Lesson 7 : Synchronizing Data</b> <ul style="list-style-type: none"> <li>Setting harness attributes</li> </ul>	1-Hour	04.00 PM– 05.00 PM