Unidustry
Bridging University to Industry

IBCT Program
Towards TVET

SOLIDWORKS
Solution Partner

Solidworks Electrical Standard Training Course Outline

Description: Hands-on training workshop to get started with Solidworks Electrical. The training covers the basics, and work your way through to generating Reports, such as Bill-Of Materials, Single-line and Multi-line schematics, 2D layouts, 3D Wire Routing and Drawing Automation

Prerequisites: Electrical Design Experience, Experience with Windows® Operating System

Length: 5 days

Topics Covered:

Lesson 1: Project Templates
Starting Solidworks Electrical
The User Interface
What are Projects
Project Templates
Modifying Project Templates

Lesson 2: Drawing Types
What are Drawing Types?
Line Diagram Symbols
Adding Cables
Schematic Symbols

Lesson 3: Symbols and Components
What is a Component?
Symbol Component Association

Lesson 4: Manufacturers Parts
What are Manufacturers Parts?
Finding Manufacturers Parts

Lesson 5: Wires, Equipotentials and Cabling
Wires and Equipotentials
Wire Style Management
Wire Numbering
What is Cabling
Detailed Cabling

Lesson 6: Symbol Creation and Macros
Symbols and Standards
Symbol Creation
Symbols Manager
Creating and Adding Macros

Lesson 7: Cross Referencing
What is Cross Referencing
Origin-Destination Arrows
Dynamic Programmable Logic Control
Automated Programmable Logic Control
Connectors

Lesson 8: 2D Cabinet Layout
Creating a 2D Cabinet Layout

Lesson 9: Electrical 3D
3D layout and Wire Routing

Lesson 10: Design Rule Checks

Lesson 11: Reports
What are Reports?
Report Automation