

# Productivity with AutoCAD Electrical 2010

## Description:

Duration: 2 Days

Learn how to customize databases and other reference files to tailor AutoCAD® Electrical 2010 software to specific projects and company requirements. Also learn how to be more productive by updating title block attributes, generating automatic reports, using PLC I/O modules, managing cables, and using the circuit builder. Hands-on exercises representing real-world design scenarios for the IEC (international) standard are included.

## Course Objectives:

To teach users the customisation and productivity enhancing tools available in AutoCAD Electrical to improve electrical project design and management processes.

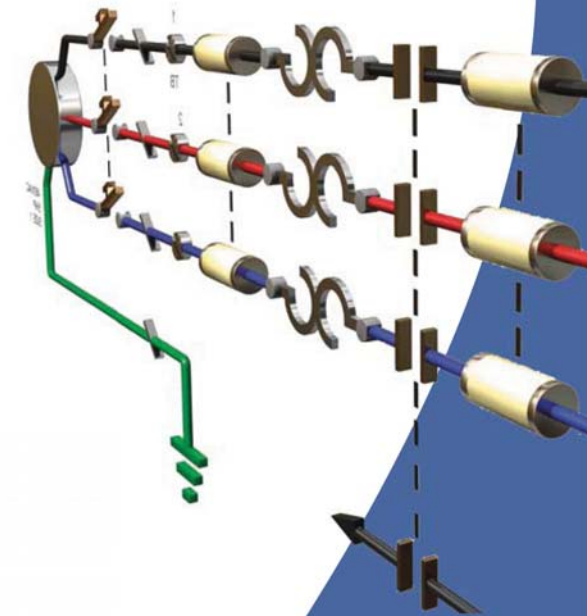
After completing this guide, users will be able to:

- Change project and drawing configurations, create drawing templates, and manage reference files and directory search paths.
- Create custom schematic and panel symbols to meet specific needs and customize the icon menu system to include the new symbols.
- Edit part catalogue, footprint lookup, pin list, and terminal property databases.
- Use automated processes, such as generating reports and updating drawings from spreadsheets, adding wiring information to footprints, managing cables, and inserting and configuring circuits in projects to improve design productivity.
- Insert parametric PLC I/O and standard full-unit modules in schematic drawings, as well as create custom PLC I/O modules.

## Who Should Attend & Prerequisites:

Before using this guide, users should have completed an *AutoCAD Electrical* course, and have a working knowledge of the following:

- A recent version of AutoCAD.
- Electrical drafting, design, or engineering principles.
- Microsoft® Windows® Vista or Microsoft® Windows® XP.



## Productivity with AutoCAD Electrical Course Outline:

### Settings and Configurations

- Creating Wire Types
- Using Reference Files
- Drawing Properties
- Project Properties
- Creating Drawing Templates
- Installation and Search Paths

### Custom Components

- Schematic Symbols
- Icon Menu System
- Panel Footprints

### Custom Data

- Managing Part Catalog Databases
- Editing the Pin List Database
- Editing the Terminal Properties Database
- Updating Title Block Attributes

### Automation Tools

- Updating Schematics from Spreadsheets
- Generating Automatic Reports

### Autodesk Vault Integration

- Working with Autodesk Vault

### PLC Modules

- Using PLC I/O Modules
- Using the PLC Database File Editor
- PLC I/O Address-Based Tagging
- Using the Spreadsheet to PLC I/O Utility

### Productivity Tools

- Adding Wire Data to Footprints
- Managing Cables
- Using the Circuit Builder
- Working with Peer-to-Peer Drawings
- Creating One-Line Diagrams

