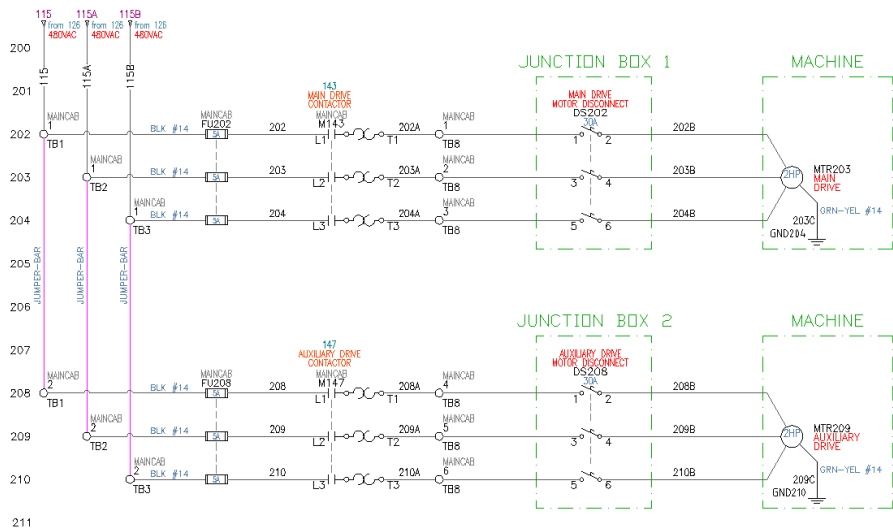


AutoCAD® Electrical Work-Flow-Based Training Course Syllabus (JIC/NFPA version)

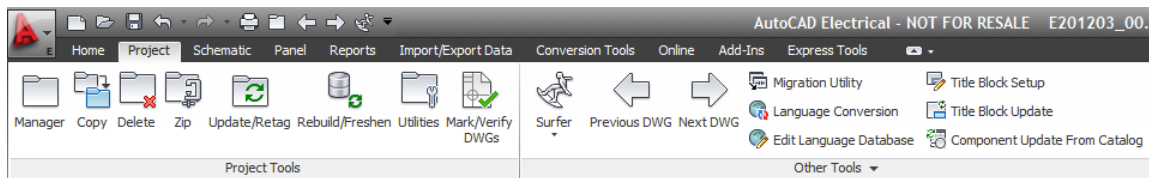


Day One:

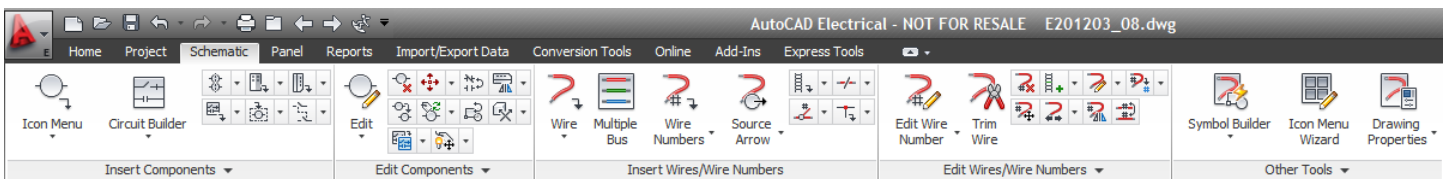
- Basic hands-on functional overview of AutoCAD Electrical
- Program Infrastructure
- Working in a network environment
- Configuration
- Customization
- Creating the "Smart" Border Template with pre-loaded design rules and wire types



Day Two:

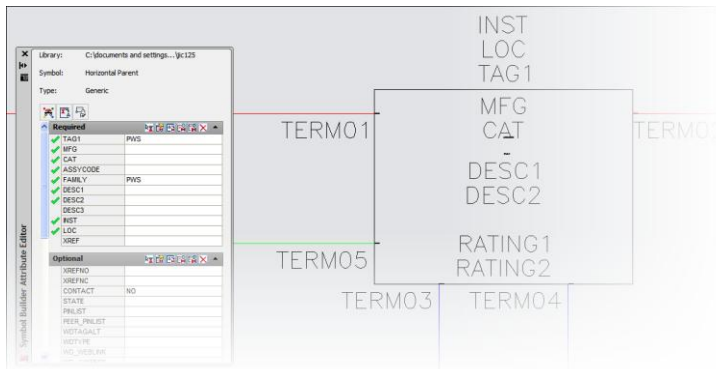


- Project Management
- Managing ladders and wires
- Insert a terminal strip
- Editing attribute location, size, visibility
- 3-phase parametric devices
- Managing the pin list database
- Move a component to a new location
- Define a wiring sequence
- Define a subassembly
- Advanced attribute management
- Advanced scot
- Creating a control circuit





Day Three:

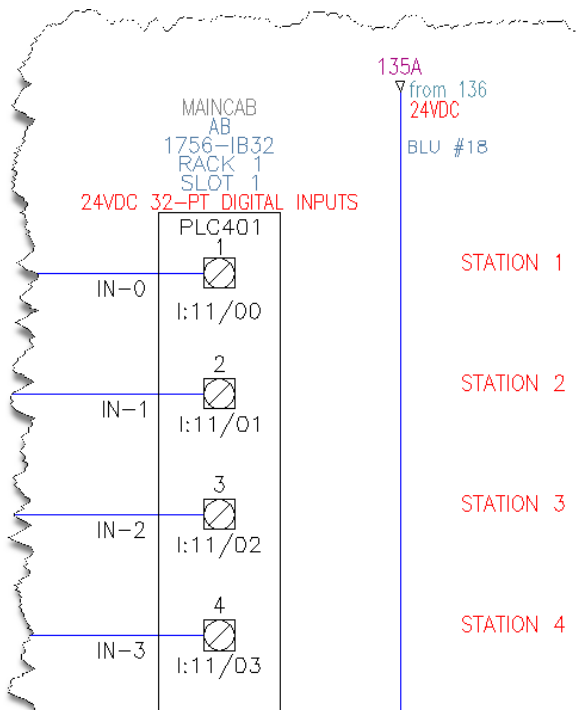


- Swap a Block
- Create a terminal bus
- Assign wire numbers automatically
- Create a 3-phase motor circuit
- Insert location boxes (working with Installation and Location codes)
- Insert a terminal strip across multiple wires automatically
- Creating and using saved circuits
- Creating main phase buses
- Renumber a terminal strip automatically with the Terminal Strip Editor

- Create a custom schematic symbol
- Add a new symbol to the icon menu
- Add a new submenu to the icon menu
- Add a new vendor part number to the catalog database
- Create a latching circuit
- Automatic cross-referencing
- Using the Schematic Surfer for a design review
- Copy a circuit



Day Four:



- Insert a PLC power supply
- Insert a PLC processor
- Insert a parametrically built PLC module
- Insert multiple component symbols automatically
- Using the align tool
- Using the find/edit/replace editing tool
- Editing and updating schematic data using Microsoft® Excel
- Move all I/O address descriptions simultaneously
- Insert a parametrically built PLC output module
- Insert a Form-C control relay and contacts with automatic pin assignments and cross-referencing
- Insert a selector switch
- Insert a connector using the parametric Connector Builder

AutoCAD® Electrical

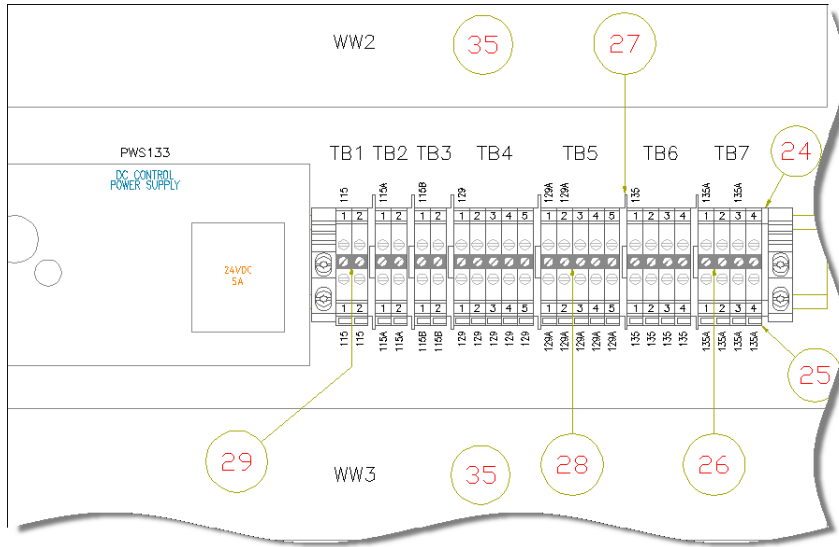
Work-Flow-Based Training Course Syllabus

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Day Five:



- Create a Panel Layout from a list of schematic components
- Managing the footprint lookup database
- Automated nameplate insertion
- Bi-directional updates
- Assign item numbers automatically
- Inserting balloons
- Create a custom panel layout symbol (footprint)
- Annotating footprints with wire numbers
- Managing DIN rails and wire-ways
- Inserting graphical terminal strips

- Inserting multiple footprints at once
- Error analysis in preparation for release
- Automatic Report Generation

WIRE NO.	WIRE TYPE	FROM LOCATION	FROM COMPONENT	TO LOCATION	TO COMPONENT
L1	BLK_10AWG_MTW	MAINCAB	TB0:L1	MAINCAB	DS105:1
L2	BLK_10AWG_MTW	MAINCAB	TB0:L2	MAINCAB	DS105:3
L3	BLK_10AWG_MTW	MAINCAB	TB0:L3	MAINCAB	DS105:5
105	BLK_10AWG_MTW	MAINCAB	CB110:1	MAINCAB	DS105:2
105	BLK_14AWG_MTW	MAINCAB	CB110:1	MAINCAB	FU107
105A					
105A					
105B					
107					
108					
110					
110A					
115					
115A					
115B					
115B					
115B					
115A					
115A					

ITEM	TAG(S)	QTY	MFG	CATALOG	DESCRIPTION
1	LT140 LT144 LT148	3	AB	800T-P16G	GREEN PILOT LIGHT - STANDARD, NEMA 4/13 30.5mm 120VAC XFMR PLASTIC LENS
2	LT140 LT144 LT148 PB139 PB139A PB143 PB143A PB147 PB147A SS143 SS147 SS602	12	AB	800T-X59E	Name Plate 800T Half Round Gray Custom Text
3	PB139 PB143 PB147	3	AB	800T-B1D1	PUSH BUTTON - MOMENTARY, NEMA 4/13 30.5mm EXTENDED GREEN 1 NO
4	DS105	1	AB	194E-A32-1753	IEC LOAD SWITCH 3 POLE 194E - LOAD SWITCH 32AMPS

Note: Day 2 of this course begins a “from scratch” design simulation and builds upon the content developed during Day 1. This course is workflow-based so the attendees will experience each phase of a new design while exploring the many automated and semi-automated tools available in AutoCAD® Electrical. This course is especially suitable for those who will only be able to attend one course, yet must return to their office to implement and manage the software on their own. If you only have time and finances to attend one AutoCAD Electrical training course, this is the one to attend. The instructor has been designing PLC-based control systems to meet NFPA/UL and DIN/IEC standards since 1988, with an installed base of systems numbering into the thousands globally.