Walk-in Slide: AU 2014 Social Media Feed

 Click on the link below, this will open your web browser

http://aucache.autodesk.com/social/visualization.html

 Use "Extended Display" to project the website on screen if you plan to work on your computer. Use "Duplicate" to display same image on screen and computer.

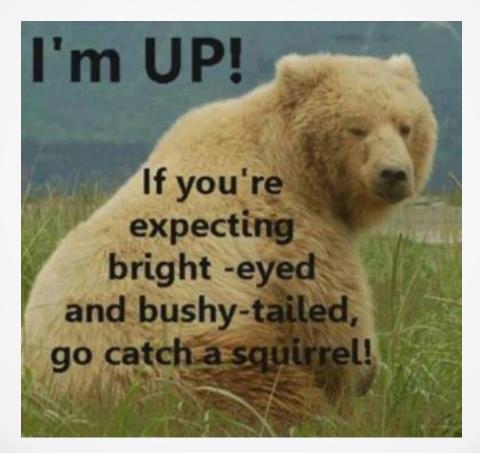


MD6033: Feeling the *Spark* for AutoCAD Electrical (For AutoCAD Users)

Tiffany Tucker TATA Technologies



Thank You So Much for Waking Up and Coming to Your FIRST CLASS OF AU 2014!!!!



Class summary

If you are currently using AutoCAD® to develop controls drawings or if you have AutoCAD® Electrical but you are still primarily using it as vanilla AutoCAD to complete your controls drawings, this is the class for you. Learn key tips and tricks to get you quickly up and running with AutoCAD Electrical, so that you can start utilizing all of its amazing automation! Hot Topics will include template development, support file step up, and user friendly automated commands. This class will be electrifying and have you feeling the spark of love for ACADE!



Key learning objectives

At the end of this class, you will be able to:

- Understand the benefits of moving to AutoCAD Electrical
- Understand the basic concepts of starting an AutoCAD Electrical Project
- Understand the basic support files that can be made company-specific
- Understand the key items for converting AutoCAD templates to ACADE templates







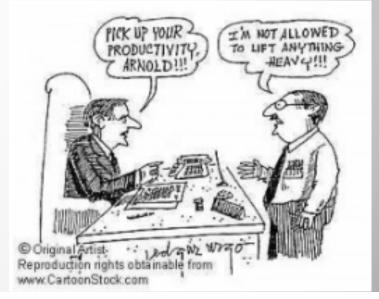


Top 5 Productivity Inhibitors when using vanilla ACAD:

- Manual Creation of Symbols
- Manual Tagging
- 3. Manual Cross Referencing
- 4. Manual Reports
- Manual Editing







Top 5 Reasons Productivity Increases when using ACADE over ACAD:

- 1. Symbol Libraries with over 2000 symbols
- Automatic Tagging
- 3. Real-time Cross Referencing
- 4. Automatic Reports
- TITLE BLOCK UPDATE UTILITY!!









Key findings from Autodesk's AutoCAD Electrical 2015 Productivity Study^

- Creation of new designs was 84% faster.
- Editing existing designs are 77% faster.
- Risk of errors was greatly reduced because of a 67% reduction in number of commands used

Productivity Gain*	AutoCAD (Minuets, Seconds)	AutoCAD Electrical (Minuets, Seconds)	Time savings
Comprehensive Symbol Library	1:30	:16	82%
Automatic Wire\Component Numbering	1:45	:20	81%
Real Time Error Checking	2:01	:22	82%
Real Time Coil and Contact Cross Reference	1:47	:25	77%
Electrical Specific Drafting Features	4:47	1:47	63%
PLC for Spreadsheet	120:00	:39	99%
Smart Panel Drawings	6:21	2:28	61%
Create BOM	9:23	:16	97%
Track Changes	N\A	1:08	N∖A
Reuse Drawings	5:31	1:09	79%
Total Time	153:05	8:50	
Time Savings with AutoCAD Electrical			80%

[^]conducted by an independent consultant



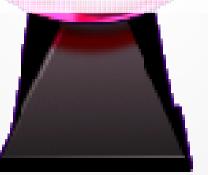


^{*} Image from the AutoCAD Electrical 2015 Productivity Study.pdf

Benefits of Moving from AutoCAD to AutoCAD Electrical

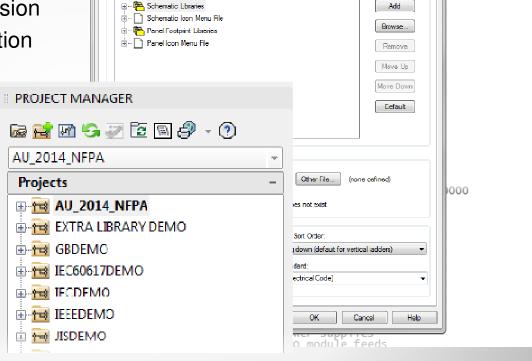


Learning Objective 2: The AutoCAD Electrical Project





- Project files
 - ASCII text file with a .wdp extension
 - Contain project specific information
- Project Manager
 - AutoCAD Palette
 - Customized Right Click Menus



Project Settings Components Wire Numbers Cross-References Styles Drawing Format

C:\Users\ttt70270\Documents\AU 2014\AU_2014_NFPA\AU_2014_NFPA.wdp

Project Properties

Library and Icon Menu Paths

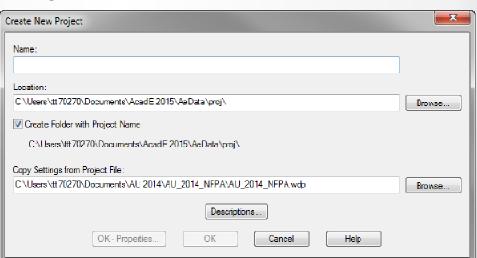
AU_2014_NFPA.wdp - Notepad

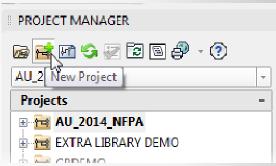




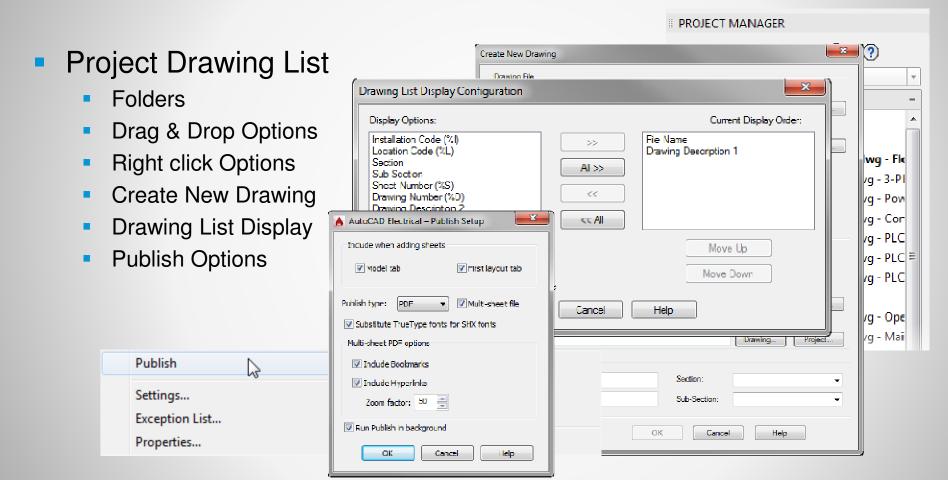
IFPA/1-;%SL_

- Create New Project Dialog Box
 - Name it
 - Location for files
 - Option to create a new folder
 - Copy another project file's settings
 - Descriptions: project-wide





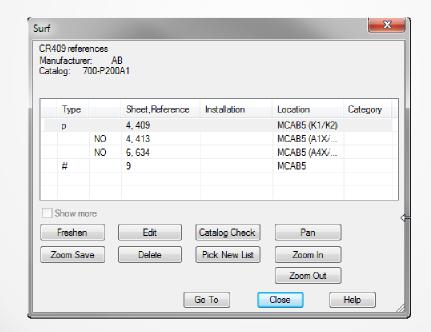








- Surfer Utility
 - Move through project files to linked components



Copy ACADE Projects

- Ribbon: Project Tab
- Much faster than a manual copy
- Includes related files

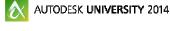






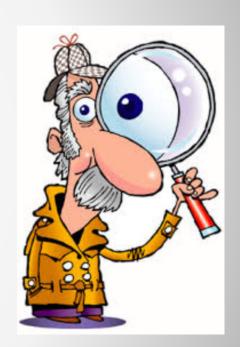


Learning Objective 3: Customizing AutoCAD Electrical Support Files



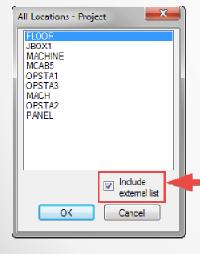


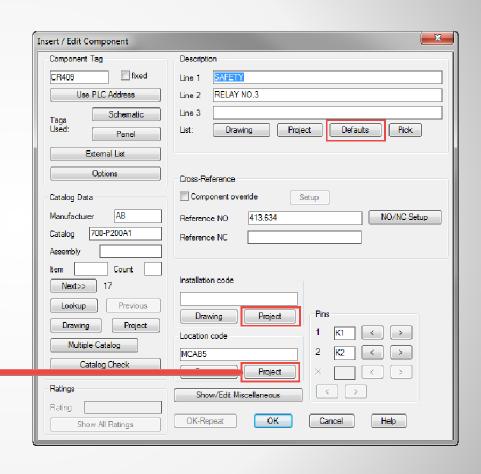
- Multiple versions of these files can exist
- Search Sequence:
 - <project name>.<file extension> located in the same folder as the active .wdp file
 - DEFAULT. < file extension> located in the same folder as the active .wdp file
 - DEFAULT. < file extension> located in the Support Directories



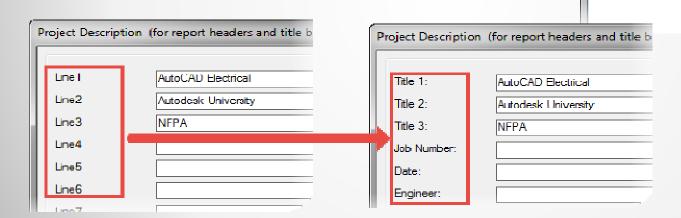


- Component References Files
 - Description File: wd_desc.wdd
 - Installation Codes: default.inst
 - Location Codes: default.loc





- Project Description Line Labels
 - Customized WDL file
 - Unlimited number of lines can be stored in this file
 - Format for the file is LINEx=label







default_wdtitle.wdl - Notepad

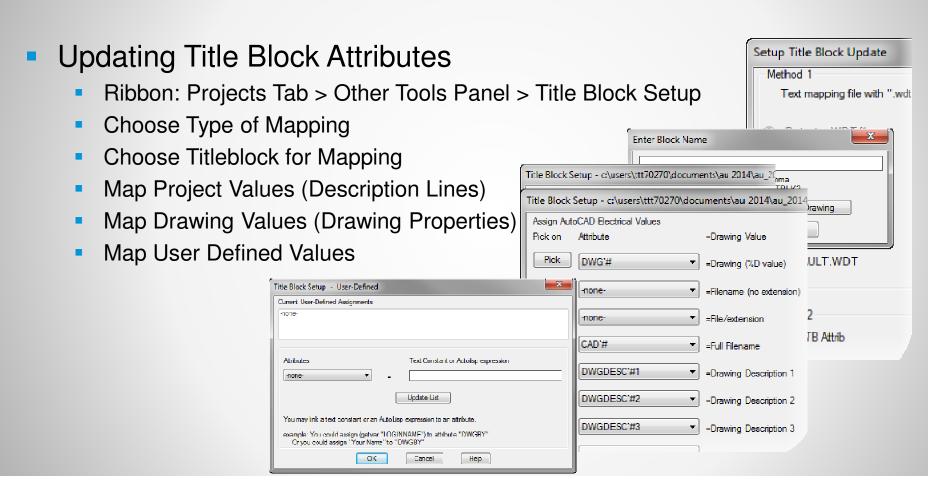
File Edit Format View Help

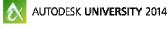
LINE1=Title 1: LINE2=Title 2:

LINE3=Title 3: LINE4=Job Number:

LINE8=Checked By: LINE9=Scale:

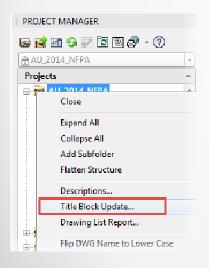
LINE5=Date: LINE6=Engineer: LINE7=Drawn By:

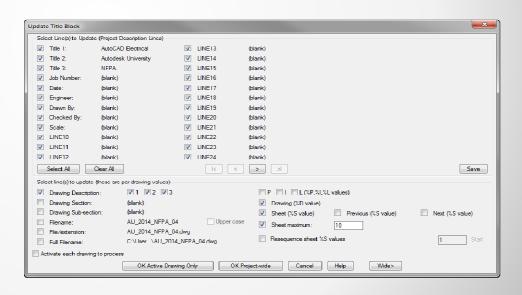






- Updating Title Block Attributes throughout the project
 - Right click on Project Name in Project Manager and select Title Block Update
 - Select attributes to be updated
 - Select whether this is Drawing Wide or Project Wide



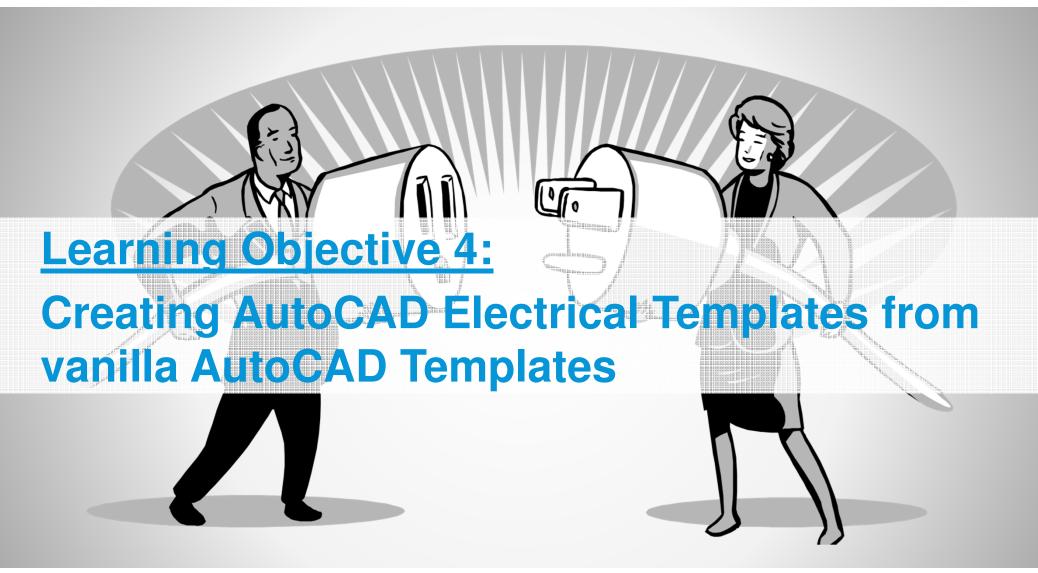


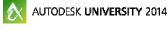








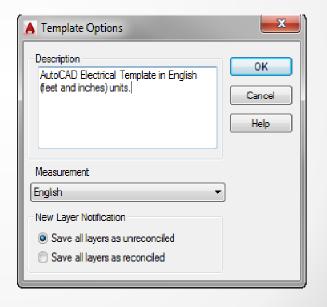






Creating AutoCAD Electrical Templates from vanilla AutoCAD Templates

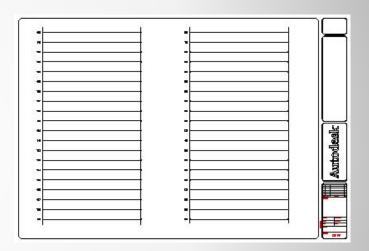
- Key items that should already be in your AutoCAD Templates:
 - Snap and grid mode settings
 - Dimension Styles
 - Text Styles
 - Table styles
 - Title block (in Paper Space)





Creating AutoCAD Electrical Templates from vanilla AutoCAD Templates

- Key items that need to be added to your ACAD Templates for ACADE:
 - Drawing properties
 - Wire Layers
 - WD_M Block
 - Optional Items:
 - Ladders, circuits, and other graphical entities
 - Non-plotting objects as guidelines for geometry in Model Space & Viewports in Paper Space



Creating AutoCAD Electrical Templates from vanilla AutoCAD Templates







Feeling the Spark for AutoCAD Electrical (for AutoCAD Users)

Tiffany Tucker - TATA Technologies

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About the Speaker

Tiffany has been an Autodesk Consultant for Tata Technologies for the last eight years. Her primary focus is as a technical instructor/consultant for AutoCAD, AutoCAD Electrical, and Inventor. She, along with two other consultants, has won awards for developing a full line of online live instructor-led training classes for the Autodesk manufacturing products. Before becoming a consultant, she earned her Bachelor's degree from Michigan State University and she has worked in many different industries gaining valuable CAD experience, including Electrical Engineering, Interior Design/Architecture, Mechanical Engineering, Software Engineering, and was part of MSU's CAD development team. She started on AutoCAD R10 and has carried a strong passion for Autodesk products ever since. tiffany tucker@latatechnologies.com



TATA TECHNOLOGIES

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Questions





Do you have your thinking caps on?!







QUIZ: Question 1:

What is one of the Top 5 Reasons Productivity Increases when using AutoCAD Electrical over AutoCAD?

- Symbol Libraries with over 2000 symbols
- Automatic Tagging
- Real-time Cross Referencing
- Automatic Reports
- TITLE BLOCK UPDATE UTILITY!!



QUIZ: Question 2:

Why is a project file so important to use in AutoCAD Electrical?

- Project description lines (most commonly used for automatically updating all title blocks)
- Project default settings (design standards)
- Project drawing list, including: Complete path information, Drawing description lines, Section and subsection assignments
- Other miscellaneous catalog and symbol library settings
- > Folder structure of the project drawings



QUIZ: Question 3:

What is one of the customizable support files in AutoCAD Electrical?

- Component Description File (wd_desc.wdd)
- Location/Installation Files (default.loc/default.inst)
- Project Line Labels File (default_wdtitle.wdl)
- Title Block Mapping File (default.wdt)



QUIZ: Question 4:

What is one key item that you should include in your AutoCAD Electrical templates?

- Snap and grid mode settings
- Dimension Styles
- Text Styles
- > Table styles
- Title block (in Paper Space)
- Drawing properties
- Wire Layers
- > WD M Block
- Optional Items:
 - Ladders, circuits, and other graphical entities
 - Non-plotting objects as guidelines for geometry in Model Space & Viewports in Paper Space



Session Feedback

- Via the Survey Stations, email or mobile device
- AU 2014 passes given out each day!

Best to do it right after the session

Instructors see results in real-time





Thank You So Much for Your Attention!! Enjoy the Rest of Your AU 2014 Experience!!!!



WHO'S AWESOME?!
You're Awesome!



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