

Customer Success Organization

2020.01.22

# Build Your One AutoCAD® Toolsets IQ!

Creating a custom catalogue in AutoCAD Plant 3D

**Presented by: Cynthia Claire Tan, Sheen In Liew**

Moderated by: Sophia Lee



# About Us:

- Cynthia Claire Tan
  - Autodesk Technical Support Specialist
  - AutoCAD, Plant 3D
  - Singapore, SG
  
- Sheen In Liew
  - Autodesk Technical Support Specialist
  - AutoCAD, I&L
  - Japan, JP



# Before We Get Started...

- Feel free to leave questions in the questions window.
  - We'll answer as time allows.
- This session will be recorded.
- Links are available in:
  - Registration reminder
  - Post-Webinar survey

# Welcome to the Autodesk Help Webinar Series!

## Build Your AutoCAD IQ! Live

- ✓ Hosted by Autodesk Technical Support
- ✓ 20-40 minute demo
- ✓ Q&A in the chat window as time allows
- ✓ Sessions are recorded
- ✓ Links provided in the post-webinar survey

### Completed Topics

**11 April 2019**

What's New in AutoCAD 2020

**16 May 2019**

Manage your Bill of Material efficiently with AutoCAD Mechanical Toolset

**18 July 2019**

AutoCAD Tips & Tricks

**19 September 2019**

AutoCAD Architecture\_Project Navigator

**21 November 2019**

Diagnose and Remedy Common Problems in AutoCAD Drawings

## Build Your AutoCAD IQ! YouTube

- Watch Past Webinars on Autodesk landing page
- Download Datasets from same site
- (Script, PPT, Sample DWGs)

[Build Your AutoCAD IQ! Webinar Playlist](#)

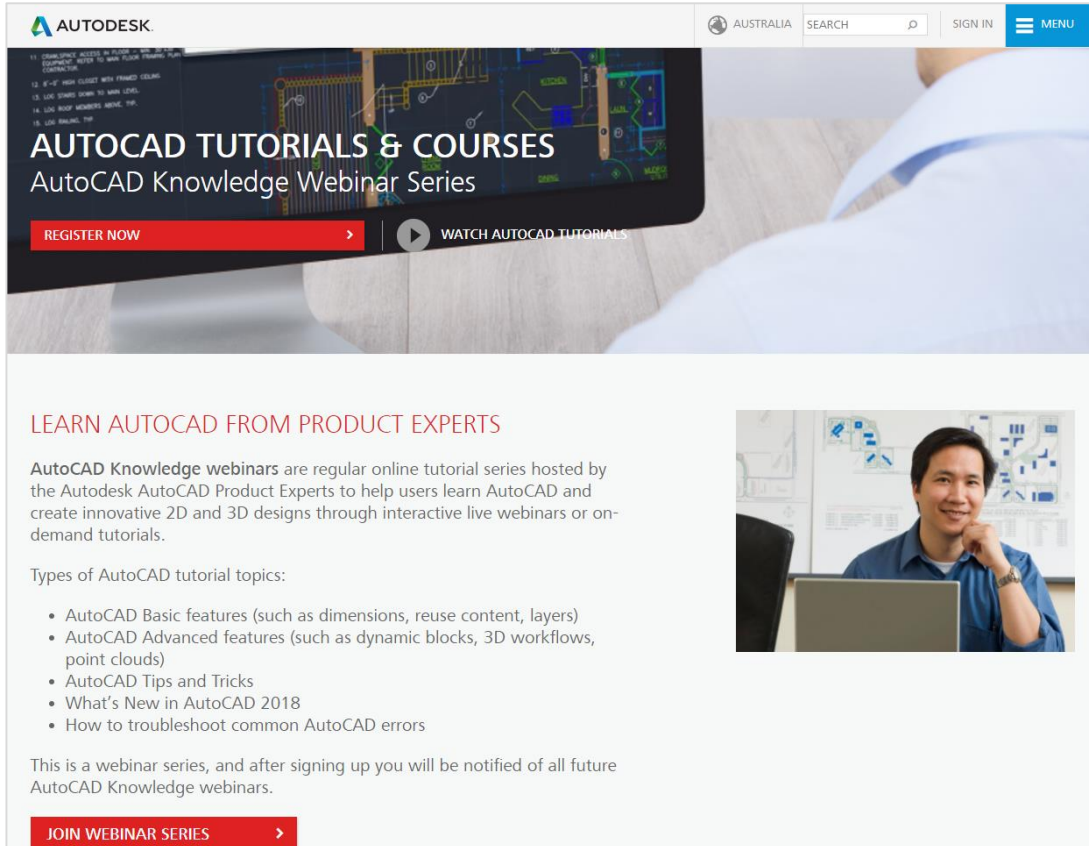
## Build Your AutoCAD IQ! Beyond

### Sign up & Join the conversation!

- [Build Your AutoCAD IQ! Webinar Landing Page](#)
  - Register for the series, or send to your colleagues
- [Autodesk AutoCAD Community Forums](#)
  - Ask your peers and share your knowledge
- **AutoCAD Customer Council**
  - Join the Beta to influence the future of AutoCAD!
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[Autocad.beta@autodesk.com](mailto:Autocad.beta@autodesk.com)
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- [Autodesk Help Webinars](#)

# Autodesk Help Webinars Landing Pages

- Our Help Webinars are available here, even if you had to miss any of the sessions.. You can watch them any time !



The screenshot shows the Autodesk Australia landing page for the AutoCAD Knowledge Webinar Series. The page features a navigation bar with the Autodesk logo, the location 'AUSTRALIA', a search bar, a 'SIGN IN' button, and a 'MENU' button. The main content area has a dark background with the text 'AUTOCAD TUTORIALS & COURSES' and 'AutoCAD Knowledge Webinar Series'. Below this, there are two buttons: 'REGISTER NOW' and 'WATCH AUTOCAD TUTORIALS'. The page also includes a section titled 'LEARN AUTOCAD FROM PRODUCT EXPERTS' with a paragraph describing the webinars and a list of topics. A photo of a man in a blue shirt sitting at a desk with a laptop is also visible.

**AUTODESK** AUSTRALIA SEARCH SIGN IN MENU

## AUTOCAD TUTORIALS & COURSES

AutoCAD Knowledge Webinar Series

REGISTER NOW WATCH AUTOCAD TUTORIALS

### LEARN AUTOCAD FROM PRODUCT EXPERTS

AutoCAD Knowledge webinars are regular online tutorial series hosted by the Autodesk AutoCAD Product Experts to help users learn AutoCAD and create innovative 2D and 3D designs through interactive live webinars or on-demand tutorials.

Types of AutoCAD tutorial topics:

- AutoCAD Basic features (such as dimensions, reuse content, layers)
- AutoCAD Advanced features (such as dynamic blocks, 3D workflows, point clouds)
- AutoCAD Tips and Tricks
- What's New in AutoCAD 2018
- How to troubleshoot common AutoCAD errors

This is a webinar series, and after signing up you will be notified of all future AutoCAD Knowledge webinars.

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# Autodesk Knowledge Network

knowledge.autodesk.com

## AutoCAD LT

- [Getting Started](#)
- [Learn & Explore](#)
- [Downloads](#) (Hotfixes, Licensing fixes etc.)
- [Troubleshooting](#)
- [System Requirements](#)

## Customer Service

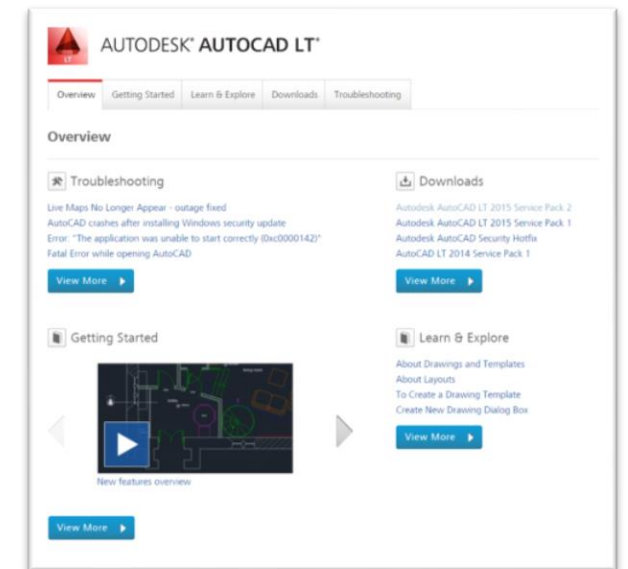
[Installation, Activation, & Licensing](#)

[Account Management](#)

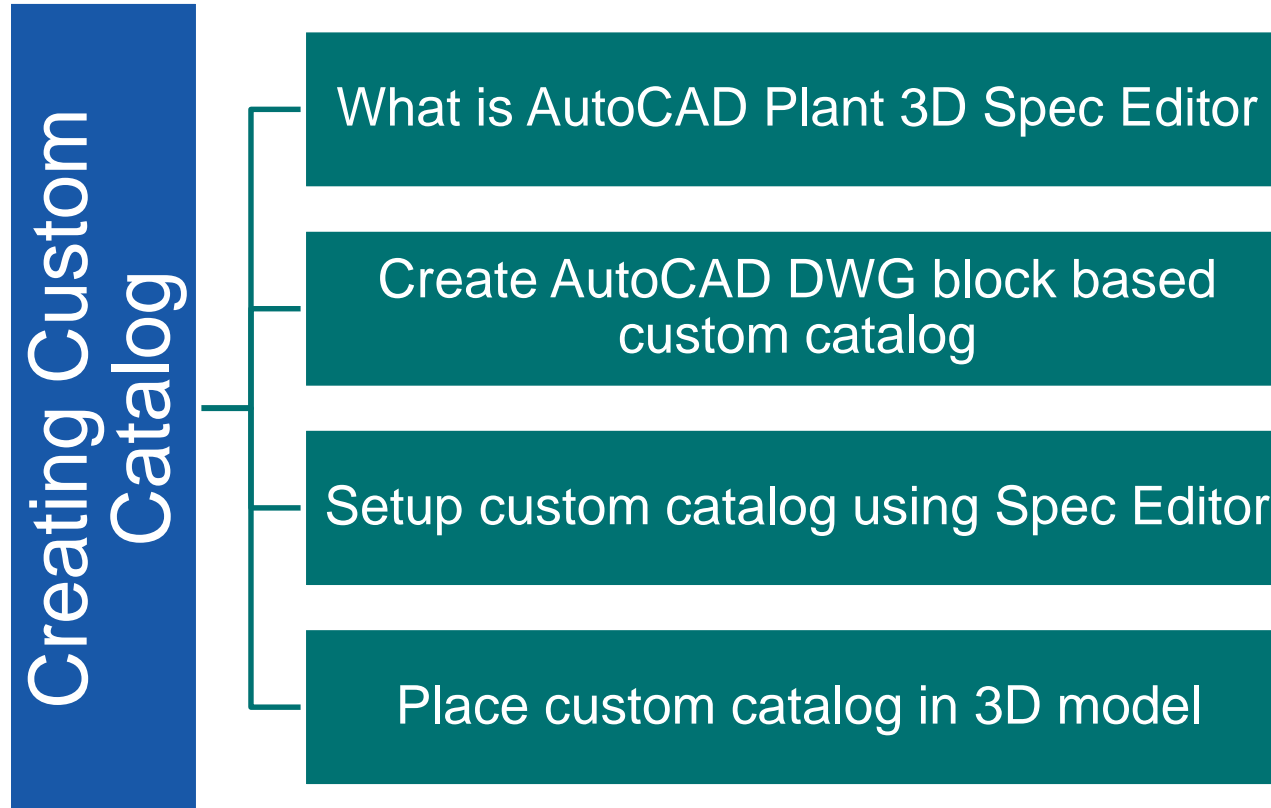
## AutoCAD

- [Getting Started](#)
- [Learn & Explore](#)
- [Downloads](#) (Hotfixes, Licensing fixes, etc.)
- [Troubleshooting](#)
- [System Requirements](#)

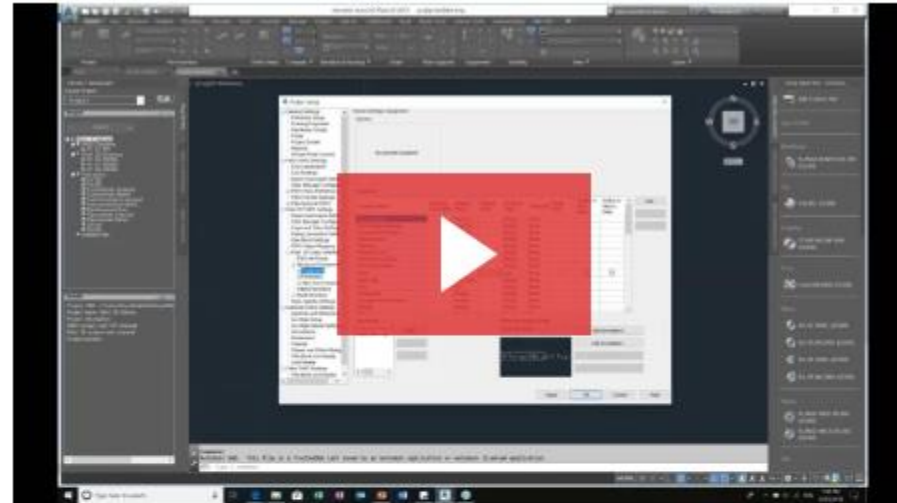
[Community](#) (Forums, Blogs, Ideas, Articles, Screencast.)



# This Webinar's Agenda



# Design and develop intelligent piping models using AutoCAD Plant 3D toolsets !



## AUTOCAD PLANT 3D TOOLSETS

- How to deploy Plant 3D toolsets
- Setting up a Plant 3D project and workspace
- Create an equipment and understand basic pipe routing
- Data manager tool
- Creating isometric and orthographic drawings

[DOWNLOAD PRESENTATION](#) 



# Spec Editor

- Create, view, and edit a spec.
- Add parts to a spec sheet from a catalog.
- Set part-use priority for part groups based on part size.
- Import and export spec data.

# Create AutoCAD DWG block based custom catalog

- Create 3D Shapes
- Convert Shapes to Blocks
- Use PLANTPARTCONVERT

# Setup custom catalog using Spec Editor

- Create custom catalog *(Optional)*
- Create custom spec *(Optional)*
- Adding component to catalog
- Adding component to spec

# Place custom catalogue in 3D Model

- Modelling
- Generate Isometric Drawing
- Generate Orthographic Drawing

# Summary

- Create 3D Shapes
- Convert Shapes to Blocks
- Use PLANTPARTCONVERT
- Adding component to catalog
- Adding component to spec
- Place component in 3D model
- Generate iso and ortho drawings

# References:

- [Beyond “Out of the Box” for Creating Custom Parts for AutoCAD Plant 3D](#)
- [If You Build It! You Can Pipe It in AutoCAD Plant 3D!](#)
- [De-mystifying AutoCAD Plant 3D isometrics – a configuration reference](#)

# Q&A



# Q&A

	Question	Answer
1	Can we use newly created higher version catalog for lower version?	You can copy the catalog content from older version into higher. But before 2017, It may ask you to migrate. <a href="https://knowledge.autodesk.com/support/autocad-plant-3d/learn-explore/caas/sfdcarticles/sfdcarticles/How-to-migrate-specs-and-catalogs-in-AutoCAD-Plant-3D.html">https://knowledge.autodesk.com/support/autocad-plant-3d/learn-explore/caas/sfdcarticles/sfdcarticles/How-to-migrate-specs-and-catalogs-in-AutoCAD-Plant-3D.html</a>
2	Is there a way to add 2 sizes and 2 blocks?	Yes this is possible. You can create 2 separate blocks for the 2 models/components.
3	I would like to know as how I can have some AutoCAD commands extracted in order to move some 3D drawn objects around?	There is a 3DMOVE command that can help you with this task. You need to change the workspace to 3D and access this command in AutoCAD.
4	Can you use any downloadable block as in valves?	Yes if the objects are created using plain AutoCAD drawing blocks.
5	Do you add pumps and equipment to the catalogue?	Equipments are separated.
6	Can you transfer a catalogue item from one catalogue to another?	Yes, you can copy one catalogue item from one catalogue to another. Open the source catalogue which contains the item that you want to transfer/copy. Right click on the component and choose Copy. Afterwards, open the destination catalogue and click Paste.
7	Can we export the build in catalogues to Auto cad 2D?	Yes you can bring the catalog data from Plant 3D to AutoCAD using design center but the intelligence wont be imported. You can only get the model.
8	Do we need to create a custom symbol for every shape of valves, instrument and etc and make it into block and plantconvert or there is an existing library?	You need the custom symbol for generating your isometrics correctly. This is covered in detail here - <a href="https://knowledge.autodesk.com/support/autocad-plant-3d/learn-explore/caas/documentation/PLNT3D/2014/ENU/filesPSC/GUID-27663DE2-4E7C-4790-A276-714AD0008232-hm.html">https://knowledge.autodesk.com/support/autocad-plant-3d/learn-explore/caas/documentation/PLNT3D/2014/ENU/filesPSC/GUID-27663DE2-4E7C-4790-A276-714AD0008232-hm.html</a>
9	If creating a catalog requires an existing catalog, how do we have a catalog to begin with?	There are default catalogs for various standards like ASME,DIN,ISO and they come as built in with Plant 3D and installed under C:\AutoCAD Plant 3D <version> Content. You can leverage on them as a start.
10	AVEVA 3D drawing can import in 3D AutoCAD?	As long as it is in DWG format, you can open them in AutoCAD but intelligence may not port in, just the model would be available.
11	Can we use the custom parts for something line cable trays where the width and length could be varying?	Yes you can. However most users have AutoCAD MEP to create Cable trays and bring them over to plant for piping.
12	My question regarding the .png files was releated to step when we created block files some image files were also created in same folder. What is the use of it?	These .png files together with XML file are referred to when we select the 3D model for the custom component.
13	How to add iso symbol in parts catalogue?	You may refer to this documentation to learn more about iso symbols: De-mystifying AutoCAD Plant 3D isometrics – a configuration reference < <a href="https://knowledge.autodesk.com/support/autocad-plant-3d/learn-explore/caas/sfdcarticles/sfdcarticles/De-mystifying-AutoCAD-Plant-3D-isometrics-a-configuration-reference.html">https://knowledge.autodesk.com/support/autocad-plant-3d/learn-explore/caas/sfdcarticles/sfdcarticles/De-mystifying-AutoCAD-Plant-3D-isometrics-a-configuration-reference.html</a> >
14	So AutoCAD Plant 3D 2020 version still support create custom part by python ?	Yes we do but it is mainly assisted through our <a href="#">ADN</a> Channel. Here is an AU Class - <a href="https://www.autodesk.com/autodesk-university/class/Scripting-Components-AutoCAD-Plant-3D-2012">https://www.autodesk.com/autodesk-university/class/Scripting-Components-AutoCAD-Plant-3D-2012</a>
15	Can the the 3d model being used or import in AutoCAD2018 or 2020	Yes Plant drawings are readable in AutoCAD. You can also do exporttoautocad to read them.
16	Is the block & component conversion also available in LT version? If yes, are the commands same too?	This is Plant 3D only feature. Unfortunately, LT doesnt have this.
17	We can customize own ASME catalog?	Yes you can.





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