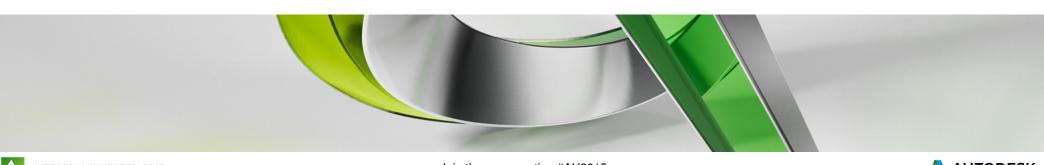


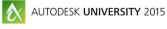
#### **GEN11005-L** - The Power of Fields and Attributes in AutoCAD

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#### About me...

- Working as BIM Manager PTW Architects
- 17 Years of Industrial Experience with Architectural Engineering Construction (AEC)
  Industry
- Certified Instructor/Professional from Autodesk for AutoCAD, Revit & 3ds max
- Training AutoCAD, 3ds max in ATC from 1998.
- Training Revit in ATC from 2005.
- AEC Building Certification for Technical Representatives Autodesk



# **Class summary**

Have you imagined how powerful attributes and fields can be in your design process? Learn how to add intelligence to your design data using fields and attributes. You will learn how to define and redefine attributes, using fields with text/Mtext and attributes.

See how quickly you can use fields to extract properties of elements and combine them with formulas for complex calculations. You will also learn how to extract attribute/fields from the design data and output as AutoCAD software Table or export as a Microsoft Excel or database file.



# **Key learning objectives**

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

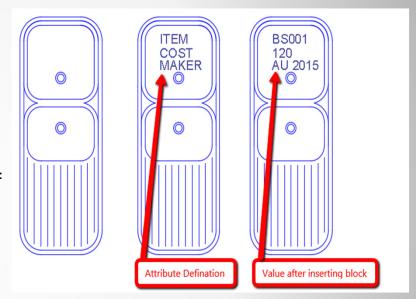
- Learn how to create attributes and redefine existing attributes
- Learn to insert fields, insert field with text/mtext, or use with attributes
- Learn to use filed for complex calculation using elements property combining with formulas
- Learn how to extract attribute/fields from the design data and output as AutoCAD Table or export as Excel or database file



#### **About Attributes**

An attribute is text that can be attached to a block to convey more information than just the geometry.

- Can also be easily extracted to an external file such as an Excel spreadsheet or database.
- Can also be placed as a table within the drawing.
- Using Attributes helps to maintain the consistency of Design
- Eg: Part number, Manufacture name, cost etc.



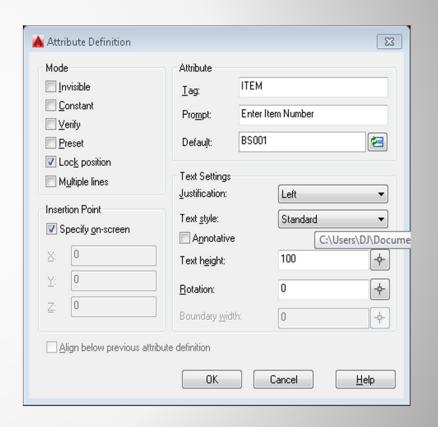


# **Defining Attributes**

Attributes can be defined by using

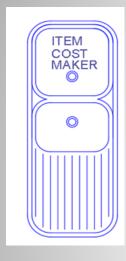
Command: ATTDEF or AT or by using "Insert > Define Attributes" Panel

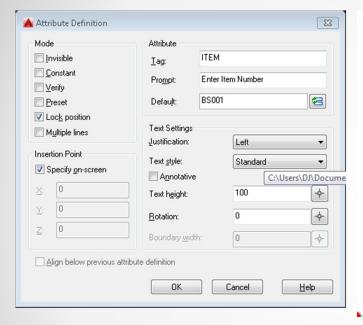






#### **Exercise Time:**



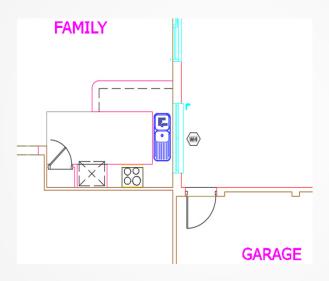


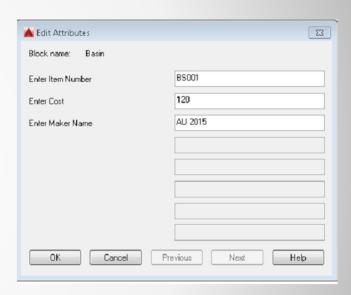


## **Insert Block and define value**

#### **Command: I or INSERT**









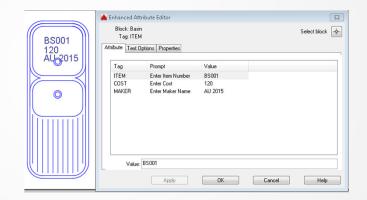
# **Editing Attributes**

### **Using PROPERTIES PALATTE**

**Command: EATTEDIT** 

**Command: BATTMAN** 



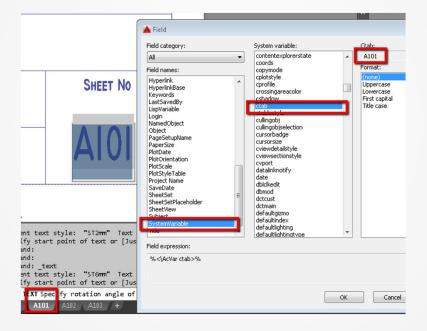




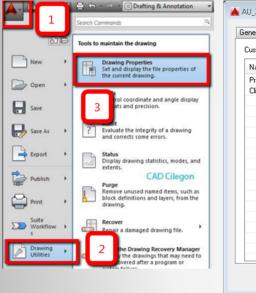
#### **Fields**

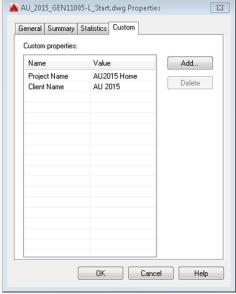
A field in text contains instructions to display data that you expect to change during the life cycle of a drawing.

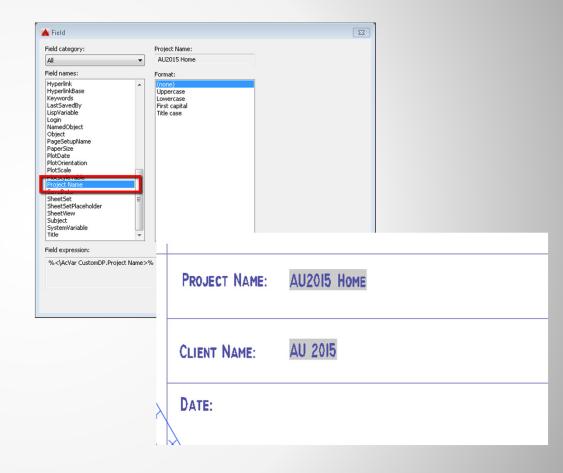




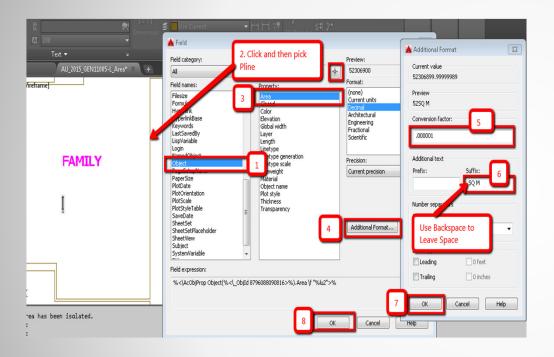
## **Exercise Time:**





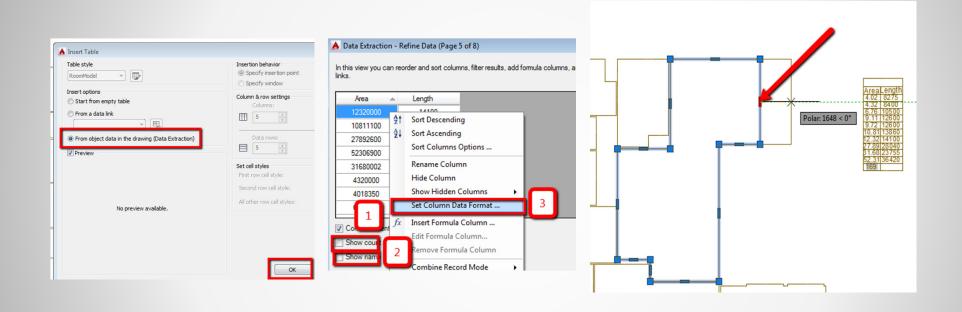


## **Exercise Time:**





# **Exercise Time:** Area Calculation using Fields and formulas



## **Questions & Answers**





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