Dynamo Essentials

Course Duration: 8 Hours

Overview:

This workshop is designed for new users of Dynamo for Revit.

Learning Objectives:

- Describe the value of BIM for Computational Design.
- Get familiar with Dynamo for Revit.
- Learn the basics of visual programming.

Prerequisites:

It is recommended to have a basic knowledge of Revit Architecture or Revit Structure.

Acquisition:

Trainees will get a Certificate of Completion.

Notes:

This workshop is a basic guideline. The workshop will go through the basic functions of Dynamo for Revit.

Course Description:

This workshop will give an understanding of BIM for Computational Design using Dynamo for Revit. Dynamo for Revit can be used in a variety of workflows involving computational design and automation.

Topics Covered:

Overview
- Dynamo Terminology

Dynamo Fundamentals
- Dynamo interface
- Understand nodes
- Creating your first node
- Linking nodes
- Generating basic geometry
- Reusing nodes

Automate Revit Elements using Dynamo
- Adaptive components in Revit
- Input geometry from Revit
- Complete adaptive component example

Getting and setting paremeters in Revit and Dynamo
- Gather Revit parameters into Dynamo
- Linking Dynamo information into Revit parameters

Creation of Sheets
- Selecting model elements in Revit (Scope Box)
- Generate automated sheets in Revit using Scope Box

Using custom nodes in Dynamo
- Importing a surface from Revit massing
- Generate curves/isolines from imported surface
- Importing a custom node in Dynamo
- Create a structural frame using curves generated from Dynamo

Creating Custom nodes in Dynamo
- Creating a custom node
- Publishing a custom node

Extracting adaptive component points to excel
- Extract adaptive point locations from Revit families
- Writing data to excel

Importing excel data to generate topo in Revit
- Using excel data for topography input in Dynamo
- Using topography commands in Dynamo for Revit output

For inquiries, please call or email:

8899-7853 loc 2158/2154
09399734872
inquiry@mscorp.com.ph

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