

by FRANCESCO PIRRITANO

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approved ND

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TRAINING SYLLABUS

DYNAMO ADVANCED

no. of delegates Up to 6 maximum.

description This course covers the Dynamo Advanced for Revit environment and its functionalities to work in a bi-directional fashion on parametric geometry.

prerequisites Completion of the full Revit and Dynamo Fundamental course.

objectives This course aim to provide a practical advanced understanding of how to operate the Dynamo environment and making use of the fundamental functions to generate and control geometry in Revit:

1. INTRODUCTION TO LISTS

- Cleaning data & nulls
- Get parameter values
- Filtering data
- Set parameter values

2. DATA TYPES

- If (Then/Else)
- Freezing Nodes
- Converting data types
- Data / Object Type
- Numbers
- Strings
- Logic & Booleans

3. LIST MANAGEMENT

- Indexing & Flattening
- Boolean Mask
- Sorting & Grouping
- Lacing & Levels
- Transposing
- Map & Combine

4. DYNAMO & EXCEL

- Element IDs
- Export / Import
- Get Elements by IDs
- Update sheet data

5. GEOMETRY

- Element Geometry
- Points & Vectors
- Moving Objects
- Curves & Lines
- Solids & Meshes

6. CODE BLOCK

7. UI / PACKAGE A SCRIPT