

by FRANCESCO PIRRITANO

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approved ND

EVOLVE TECHCON LTD
HAYESFIELD • PIONEER AVENUE
BATH • BA2 5QX • UK

ADMIN@EVOLVE-CONSULTANCY.COM

WWW.EVOLVE-CONSULTANCY.COM

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
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. DATA TYPES
 - Data / Object Type
 - Numbers
 - Strings
 - Logic & Booleans
6. GEOMETRY
 - Element Geometry
 - Points & Vectors
 - Moving Objects
 - Curves & Lines
 - Solids & Meshes
7. CODE BLOCK
8. UI / PACKAGE A SCRIPT