

evolveconsultancy

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approved DGH

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TRAINING SYLLABUS

GENERATIVE COMPONENTS WORKSHOP

no. of delegates Up to 6 maximum.

description **Day 1:** This course introduces students to the fundamental concepts of MicroStation V8i Generative Components through practical exercises.
Day 2: Attendees contribute a problem or concept that they would like to explore in a workshop environment. Problem derivation and planning along with one-to-one guidance immerses the user into GC reality.

prerequisites The ability to unlearn previous concepts and think in a new way.

objectives Attendees will gain a broad but intensive knowledge of GC fundamentals which is developed by the practical exercises and put into real life scenarios in the GC Workshop Day 2.

1. DAY 1: INTRODUCTION & PARAMETRIC PRINCIPLES

- Creating and manipulating geometry
- The concept of dependencies
- Transaction files
- Lists, arrays & series
- Spaces
- Dimensional space
- Data types
- Coordinate systems
- Spline geometry
- Fabrication planning
- Exercise 1: Making a Reactive Component

2. DAY 2: APPLICATION OF CONCEPTS

- Problem derivation into solvable and workable areas.
- Using data created by others.
 - Generating feature types
 - Populating components
 - Editing features
- Fundamentals of scripting language
 - Syntax
 - Inline statements
 - ByFunction
 - Text Editor
- Graph functions