

## **FlexSim Simulation Modelling Basic Training Course 1 (FENT01\_03)**

### **Course Description**

The training provides participants with a thorough understanding and hands-on experience in the fundamental use of the main features provided in **FlexSim** Enterprise Software.

**Course Duration:** 3 full day

### **Objectives:**

Upon Completion of the Course, participants will be able to:

- Build models for analysis using the **FlexSim** Enterprise Software
- Import customised backgrounds and 3D shapes for use in the **FlexSim** models.
- Generate charts and dashboards for reports

### **Course Breakdown:**

FlexSim Users can use 3D Modeling method and ProcessFlow method to create models. In this course, user will be introduced to Simulation concept, **FlexSim** 3D Simulation and ProcessFlow Simulation and Modeling using hybrid methods.

Participants will learn what simulation is, and what it can and cannot do. Thereafter, they will learn to navigate around FlexSim Simulation Software; understand the basic terminology and functions; build simulation models and generate desired data.

Throughout this course, participants will build FlexSim models phase by phase, building on the earlier model. This will ensure an in-depth understanding of model-building concepts and skills.

## FlexSim Simulation Modelling Training Course 1 (FENT01\_03)

### Course Outline:

#### Day 1

##### Part 1

- 1. Introduction to Simulation with FlexSim**
- 1.1 Simulation Concepts
- 1.2 Flexsim Terminology - 'Models', 'Objects' and 'Flowitems'
  - a. FlexSim Libraries / Modules
  - b. Basics of Navigating FlexSim

##### Part 2

- 2. Basic Modeling Steps with FlexSim** **Model 1**
- 2.1 5 Modeling Steps
- 2.2 Dashboards
- 2.3 More on 5 Modeling Steps
  
- 3. Model Building Concepts with 3D** **Model 2**
- 3.1 Concept of Flow
- 3.2 Concept of Trigger
- 3.3 Add Task Executors
- 3.4 Add Navigators - Network Nodes

#### Day 2

##### Part 3

- 3. Model Modelling Concepts** **Model 3**
- 3.1 Global Tables
- 3.2 Introduction to Excel Import

##### Part 4

- 4. Model Modelling Concepts** **Model 4**
- 4.1 Concept of Combiner and Separator
- 4.2 Use of Labels to track flow
- 4.3 Revisit Excel Import

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**Course Outline: (Cont'd)**

**Part 5**

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|------------|--|-----------------------|
| <b>5.0</b> | <b>Introduction to FlexSim ProcessFlow</b> | <b>Activities 1-2</b> |
| 5.1        | Introduction to Processflow                |                       |
| 5.2        | Basics of Navigating Processflow           |                       |
| 5.3        | Basics Steps in Processflow Modelling      |                       |
| 5.4        | Collection of Results                      |                       |

**Day 3**

**Part 6**

- |            |  |                       |
|------------|--|-----------------------|
| <b>6.0</b> | <b>Model Building Concept with Processflow</b> | <b>Activities 3-5</b> |
| 6.1        | Modelling with Constraints                     |                       |
| 6.2        | Use of Resources                               |                       |
| 6.3        | Concept of Zones                               |                       |
| 6.4        | Concept of List                                |                       |

**Part 7**

- |            |   |                       |
|------------|---|-----------------------|
| <b>7.0</b> | <b>Build Models with Processflow and 3D</b>   | <b>Activities 6</b>   |
| 7.1        | Processflow models with 3D Spatial Movements  |                       |
| <b>8.0</b> | <b>Build 3D Models with Processflow Logic</b> | <b>Activities 7-9</b> |
| 8.1        | 3D Models using Processflow Logic             |                       |
| 8.2        | 3D Models with Sub Flow Processflow           |                       |

**Part 8**

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|-----------|--------------------------|-------------------------|
| <b>9.</b> | <b>Modeling Concepts</b> | <b>Activities 10-13</b> |
| 9.1.      | Item List                |                         |
| 9.2.      | Global Tables            |                         |

Disclaimer: Advent2 Labs may not complete all the modules listed above. It depends on the speed that participants can complete each module.