

## Introduction to Isight

Course Code	SIM-en-ISGT-F-V30R2021
Brand & Release	SIMULIA 2021
Duration	2 days
Level	Fundamentals
Prerequisites	Recommended for mechanical designers, analysts and methods developers

### Objectives:

This course will introduce you to Isight, a Process Integration and Design Optimization (PIDO) software framework. You will learn about the Design and Runtime Gateways along with several fundamental components and be shown the ways a simulation process workflow can be built, and the design space explored.

### Class Structure:

Upon completion of this course, you will be able to:

- Automate a series of function to create a Sim-flow
- Add components to a Sim-flow
- Set up core component
- Configure components to pass data to/from each other
- Execute a Sim-flow
- Visualize Sim-flow results
- Evaluate design alternatives
- Create a Sim-flow to capture a process, by integrating various software in the company
- Perform Design Optimization
- Gain Design Space understanding by using various techniques such as DOE, Optimization, Monte Carlo etc.

### Class Lessons:

Lesson 1: Introduction  
Lesson 2: Isight Overview  
Lesson 3: Design of Experiments  
Lesson 4: Optimization  
Lesson 5: Monte Carlo and Six Sigma  
Lesson 6: Approximations  
Lesson 7: Isight Components (Part 1)  
Lesson 8: File Handling  
Lesson 9: Isight Components (Part 2)