

## Introduction to Abaqus Scripting

Course Code	SIM-en-ISRPT
Brand & Release	SIMULIA 2024
Duration	16 hours (4 x 4h class sessions)
Level	Fundamentals
Prerequisites	None

### Objectives:

This seminar covers basic usage of the Abaqus Scripting Interface and Python's syntax. It includes numerous hands-on exercises for the student to learn to automate tasks that are common to most analysts.

### Class Structure:

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

- Help students to develop a high level understanding of the Abaqus scripting capabilities.
- Organize and present the technical details of Python and the Abaqus Scripting Interface.
- Expose the strengths and weaknesses of Abaqus scripting.
- Encourage the student to use scripting in new ways.

### Class Lessons:

Lesson 1: Overview – Introduction to Abaqus Scripting

Lesson 2: Overview of Scripting in Abaqus

Lesson 3: Why Python?

Lesson 4: Python Core Language Part 1

Lesson 5: Python Core Language Part 2

Lesson 6: Abaqus Scripting Interface Basics

Lesson 7: Abaqus Object Model

Lesson 8: Post Processing with Abaqus Scripting

Lesson 9: Miscellaneous Topics

Lesson 10: Optional Topics