

## Learning Module

# Advanced Abaqus Scripting

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This seminar is offered as a follow-up to the Introduction to Abaqus Scripting course. It is a deeper dive into both Python and the Abaqus Scripting Interface and gives users more hands on exposure with practically oriented workshops of moderate complexity. This course also provides pointers for more specialized and advanced topics.

### Objectives

Upon Completion Of This Course You Will Be Able To:

- Help students to develop a high level understanding of the Abaqus scripting capabilities and gain some proficiency.
- 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.

This advanced seminar will take a deeper dive into:

- The Abaqus Scripting Interface (ASI).
- The core functionality of the Python language and libraries.

### Knowledge Prerequisites

Experience scripting with Python and Abaqus is recommended.

### Brands

Simulia

### Available Releases

SIMULIA 2021, SIMULIA 2020, SIMULIA 2019, SIMULIA 2018, SIMULIA 2017, SIMULIA 2016, SIMULIA V6.14, SIMULIA V6.13, SIMULIA V6.12

### Duration

16 hours

### Discipline

Advanced Abaqus

### Language(s) for selected release

English

## Contents

Overview - Advanced Abaqus Scripting

- 1 - Python Core Language - Advanced Topics
- 2 - Functions, Modules, Packages & Performance
- 3 - Manipulating Strings and Files
- 4 - Object Oriented Programming
- 5 - Abaqus Scripting Interface – Postprocessing
- 6 - Scripting Interface – Preprocessing
- 7 - Miscellaneous Topics
- 8 - Stretching Horizons
- A1 - Optional Topics