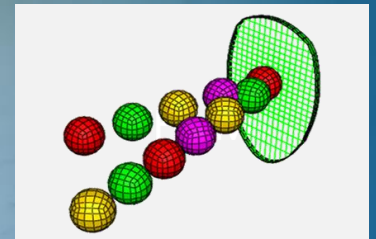


INTRODUCTION TO ABAQUS SCRIPTING

SIMULIA COURSE DESCRIPTION



Level: Fundamental
Products: Abaqus
Disciplines: Structures

Audience
We believe every Abaqus user should be familiar with the ASI. Productivity gains can be realized at many levels; from simple scripts that automate tedious tasks to large applications with custom user interfaces. This course is recommended for all Abaqus u

Why take this course?

Abaqus makes extensive use of Python, a powerful, object-oriented scripting language that is used widely by organizations throughout the world. Python has been embedded within the Abaqus software products. The language has been extended to include a rich set of commands that are well suited for the daily tasks of a finite element analyst. These extensions are referred to as the Abaqus Scripting Interface (ASI). The Abaqus Scripting Interface may be used by the finite element analyst at many different levels. Scripts can be written as stand-alone utilities, or can be written to integrate the Abaqus products with other codes. At a basic level, scripts may be used to automate repetitive tasks such as the creation of results plots from a collection of output files. With some experience, users may actually extend the functionality of the Abaqus products. Advanced users may work with SIMULIA affiliates to customize the graphical user interface of the Abaqus interactive products (Abaqus/CAE and Abaqus/Viewer). This course 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.

What will you learn?

The goals of the course are to allow the student to:

- Develop a high-level understanding of the Abaqus scripting capabilities.
- Understand the technical details of Python and the

Abaqus Scripting Interface.

- Understand the strengths and weaknesses of Abaqus scripting.

Explore Your Learning Options

Live Sessions	Engage in Real-Time, interactive group workshops guided by experts. Learn and collaborate live in your preferred language and time zone.	Join a live session
On-Demand Learning	Access expert-designed courses anytime, anywhere. Perfect for independent learners looking to build skills on their schedule.	Start Learning Now
Private Training	Exclusive, tailor-made sessions designed to meet your team's unique goals with expert guidance.	Contact Us for Custom Training



Gain hands-on experience and master real-world workflows through guided, practical training sessions.

Apply nonlinear analysis techniques to simulate complex structural and multiphysics problems accurately.

– SIMULIA Training Expert Team

What You Need to Know Before Starting

In order for the training to be effective, all students should have some basic familiarity with the Abaqus products including Abaqus/Viewer and Abaqus/Standard or Abaqus/Explicit. Familiarity with Abaqus/CAE is very helpful. Students should also have some

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Expand your knowledge by exploring our [course Catalog](#) and browsing learning paths on [Eduspace](#), our dedicated e-learning platform.

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