

Learning Module

Introduction to Abaqus/Standard and Abaqus/Explicit

This introductory course is the ideal way to obtain a working knowledge of how to use both Abaqus/Standard and Abaqus/Explicit to solve linear and nonlinear problems. The seminar introduces you to the analysis capabilities of Abaqus using the keywords interface.

Objectives

Upon Completion Of This Course You Will Be Able To:

- Complete finite element models using Abaqus keywords.
- Submit and monitor analysis jobs.
- View and evaluate simulation results.
- Solve structural analysis problems using Abaqus/Standard and Abaqus/Explicit, including the effects of material nonlinearity, large deformation and contact.

Knowledge Prerequisites

None

Language(s) for selected release

English

Brands

Simulia

Available Releases

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

Duration

24 hours

Discipline

Advanced Abaqus

Contents

Overview - Introduction to Abaqus/Standard and Abaqus/Explicit

- 1 - Defining an Abaqus Model
 - 2 - Linear Static Analysis
 - 3 - Nonlinear Analysis in Abaqus
 - 4 - Multistep Analysis in Abaqus
 - 5 - Constraints and Contact
 - 6 - Introduction to Dynamics
 - 7 - Using Abaqus/Explicit
 - 8 - Quasi-Static Analysis in Abaqus/Explicit
 - 9 - Combining Abaqus/Standard & Abaqus/Explicit
- A1 - Element Selection Criteri
 - A2 - Contact Issues Specific to Abaqus/Standard
 - A3 - Contact Issues Specific to Abaqus/Explicit