

SIMULIA EXERCISE HUB: PRACTICE. APPLY. PROGRESS.

Geometry Import and Repair – Complete Sequence

Duration: 30 min

Discipline: Structures

Level of Difficulty: Fundamental

Product: Structural Scenario Creation / Mechanical Scenario Creation

Role This exercise is intended for Structural Mechanics Engineer, Structural Performance Engineer, Additive Manufacturing Analysis Engineer, Durability Performance Engineer, Durability and Mechanics Engineer, Structural and Durability Engineer

Workshop Overview: This comprehensive sequence prepares learners to start simulation workflows with confidence. It includes a preliminary setup, demonstrations of geometry import and healing, and three hands-on workshops to practice geometry repair techniques. Participants will log in, set up their environment, observe expert workflows, and apply their skills in guided activities.

Where to Find This Exercise? This hands-on activity is part of Abaqus/CAE: Geometry Import and Meshing; Go on Eduspace: [Edu Space](#)

- Open lesson 1 Overview - Abaqus/CAE: Geometry Import and Meshing
- Go to slide 72

Keywords: Geometry, Import, Healing, Repair, Mesh

Step	Type	Duration	Objective
Platform Setup	Preliminary	10 min	Log in, assign role, create a collaborative space, and set up for simulation.
Geometry Import	Demonstration	5 min	Understand how to import geometry into the 3DEXPERIENCE platform.
Geometry Healing	Demonstration	5 min	Learn the standard healing workflow on an imported part.
Geometry Repair - Basic Fix	Hands-on	15 min	Practice fixing geometry issues using basic healing tools.
Geometry Repair - Advanced Healing Tools	Hands-on	15 min	Explore and apply advanced geometry repair operations.
Geometry Repair - Manual Repair	Hands-on	15 min	Perform manual healing on complex geometry errors.

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