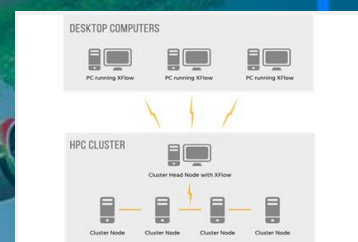


XFLOW ADVANCED

SIMULIA COURSE DESCRIPTION



Level: Advanced
Products: XFlow
Disciplines: Fluids

Audience
 Engineers with knowledge or experience in CFD

Why take this course?

This course introduces the advanced features and scripting capabilities of Xflow.

What will you learn?

Upon completion of this course you will be able to:

- Understand the fundamentals of the Lattice Boltzmann method and its particular implementation in XFlow
- Use the XFlow Discrete Phase Model (DPM) to introduce discrete particles in the flow field, the XFlow Scalar Transport model, Porous Media and Porous Jump boundary conditions
- Understand the fundamentals of acoustics simulation and the acoustic post-processing tools available
- Carry out supersonic simulations
- Understand the basics behind the Co-simulation coupling scheme and learn how to execute XFlow-Abaqus and XFlow-Simpack Co-simulations with the Co-simulation Engine
- Launch an XFlow case from command lines both as a shared and distributed (MPI) run or from the Advanced Computation dialog

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.

Explore unsteady flow behavior and transient aerodynamics using particle-based CFD simulation.

– SIMULIA Training Expert Team

What You Need to Know Before Starting

Before taking this course the completion of the following prerequisite courses (or equivalent knowledge) is required: Introduction to XFlow and XFlow Intermediate

Want to Learn More?

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

Join the Community!

[Join the SIMULIA community](#) to connect, learn, and stay updated.



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