

POWERFLOW MODSIM ADVANCED COMMON MODEL - ACM

SIMULIA COURSE DESCRIPTION



Level: Advanced

Products: PowerFLOW

Disciplines: Fluids

Why take this course?

This course provides a comprehensive overview of the Advanced Common Model (ACM) workflow within the PowerFLOW 2025 environment. Participants will learn the key stages of the ACM process that enable end-to-end simulation automation from CAD data to final results.

The course covers the following major topics:

ACM Identification: Learn how to process the 150% CAD Bill of Materials (BOM) and organize it into 100% BOM sorted into ACM modules using customer PLM tools.

ACM Build: Understand how to create PowerFLOW-compatible meshes using PowerDELTA templates, including automated meshing, gap filling, and manual mesh fixes to prepare accurate simulation models.

ACM Scenario Setup: Discover how to set up simulation scenarios using PowerCASE ACM templates, including boundary conditions, measurements, visual representations, and partitioning.

ACM Simulation and Results: Gain insights into submitting simulations using the PowerFLOW LBM solver, automated post-processing with PowerINSIGHT, and interpreting various flow properties and result visualizations.

What will you learn?

Upon completion of this course you will be able to:

- Understand the overall ACM workflow and its role in end-to-end CFD simulation automation.
- Learn how to perform ACM Identification to organize CAD data into ACM modules efficiently.
- Gain proficiency in building PowerFLOW-compatible meshes using PowerDELTA ACM templates.

Explore Your Learning Options

Live Sessions Understand the overall ACM workflow and its role in end-to-end CFD simulation automation in RealTime, interactive group sessions.	Create in RealTime, interactive group sessions.	Apply the knowledge of ACM in maximizing performance, scalability, configurability, and modularity.
On-Demand Learning Learn how to perform ACM Identification to organize CAD data into ACM modules efficiently.	Access expert-designed courses anytime, anywhere. Perfect for independent learners looking to build skills on their schedule.	Join a live session 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.

Perform aerodynamic and thermal analyses using end-to-end CFD workflows on realistic geometries.

– SIMULIA Training Expert Team

What You Need to Know Before Starting

Basic understanding of PowerFLOW workflows, including geometry preparation, case setup, and post-processing, with required PowerDELTA knowledge and recommended familiarity with PowerCASE and PowerINSIGHT

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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