

Learning Module

XFlow Complete

This course covers all the XFlow capabilities and how to set up, and postprocess all kind of simulations in XFlow.

Objectives

Upon completion of this course you will be able to:

- Understand the Lattice-Boltzmann Method used in XFlow.
- Use the different features available for all XFlow solvers: Single Phase, Free- surface and Multiphase solvers.
- Set up internal and external simulations using all the solvers of XFlow.
- Set up thermal and acoustics analysis in XFlow
- Set up simulations in XFlow with different moving parts behaviors.
- Handle all the postprocessing tools of XFlow
- Use advanced features and scripting capabilities of XFlow.

Knowledge Prerequisites

None

Contents

Overview - XFlow Complete
XFlow Introduction
GUI Overview
Single Phase
Postprocessing
Lattice Resolution
Functions
Moving Parts
Geometry
Thermal Analysis
Free Surface
Multiphase
Lattice-Boltzmann Method
Discrete Phase Model (DPM)

Brands

Simulia

Available Releases

SIMULIA 2021, SIMULIA 2020, SIMULIA 2019, SIMULIA 2018

Duration

40 hours

Discipline

XFlow

Language(s) for selected release

English

Turbulence Intensity
Scalar Transport
Porous Media
Acoustics Analysis
Supersonic Flow
XFlow-Abaqus Co-simulation
Advanced Computation