



Livermore Software Technology Corp.

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Contact: classes@lstc.com www.lstc.com/training

Introduction to the ICFD solver and CFD

Instructor: Iñaki Çaldichoury

2 Days - \$400 Students \$200 w/student ID

Includes on-site continental breakfasts, lunches, breaks, class dinner

Includes 30-day LS-DYNA demo license to practice

Course Contents:

Description of the ICFD solver's features and applications

The ICFD solver's background

Main characteristics of the solver

Application examples

General principles of CFD and fluid mechanics

Main concepts of fluid mechanics

Introduction to CFD

General CFD Applications

Keyword organization applied on a simple flow example

Mesh control tools

Dam breaking and Wave Generation

Thermal flows

User-defined meshes

Steady State solver

Post treatment and analysis tools

Advanced Applications – Part 1: Multiphysics and Coupling

Weak and Strong FSI coupling

Handling dynamic remeshing

Linear coupling with the structure

Thermal coupling

DEM Coupling

Advanced Applications – Part 2: Advanced CFD

Non Newtonian materials

Porous media flows

Turbulence models and boundary layer meshes

Non inertial reference frame