



GRUPO

TRAINING

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## ANSYS FLUENT Advanced Fluid Structure Interaction (FSI)

### Course

**Length:** 2 Days

#### Prerequisites

- Completion of the Introduction to ANSYS FLUENT course is required.
- Experience with ANSYS FLUENT is strongly recommended.
- Experience with ANSYS Mechanical.

#### Course Description

The FLUENT/ANSYS FSI advanced course covering modeling approaches for fluid-structure interaction applications using ANSYS FLUENT and ANSYS Mechanical. The course will cover procedures for performing various one-way FSI analyses, including thermal and structural, steady state and transient. Additional topics that will be covered include procedures for performing thermal stress analysis, FLUENT 12 FEA mapping panels and some miscellaneous FSI options for FLUENT users. Students should have experience running ANSYS FLUENT. Some prior experience using ANSYS Mechanical and ANSYS Mechanical APDL is desirable.

The advanced fluid structure interaction modeling course also has several tutorials that the students can work through during class.

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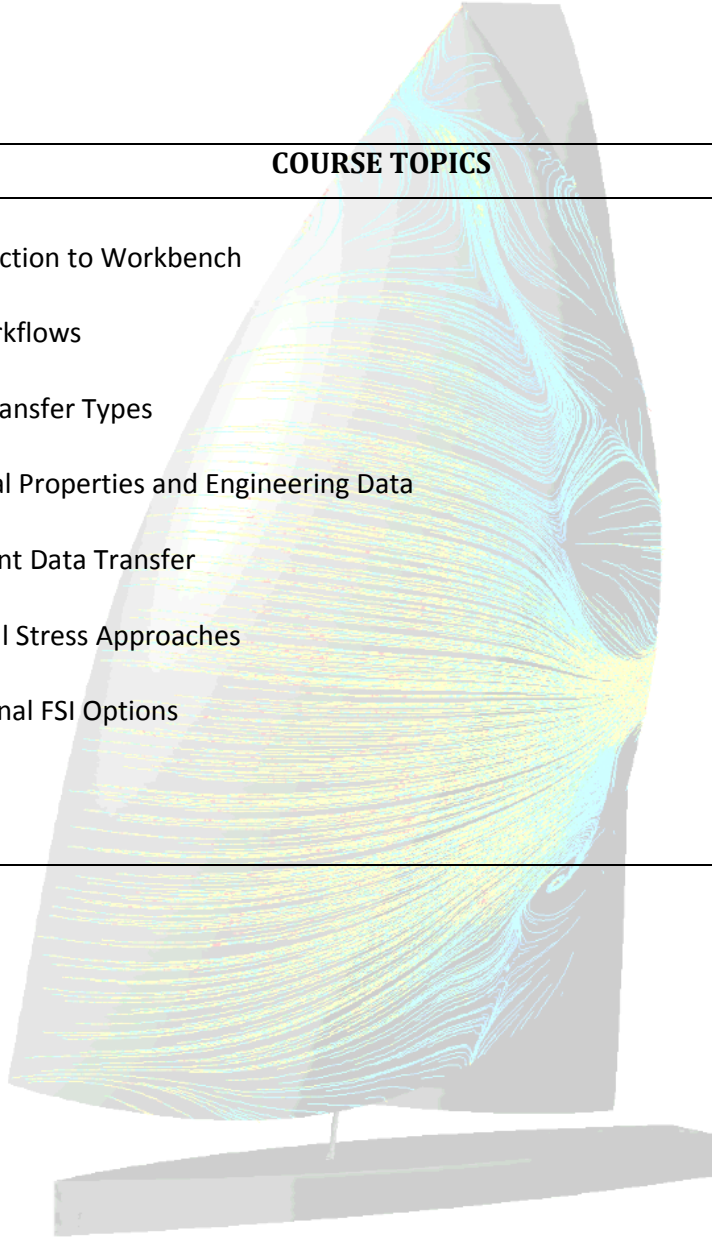
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### COURSE TOPICS

1. Introduction to Workbench
2. FSI Workflows
3. Load Transfer Types
4. Material Properties and Engineering Data
5. Transient Data Transfer
6. Thermal Stress Approaches
7. Additional FSI Options



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