Introduction to pre-processing with ANSA for Moldex3D

Training	Introduction to pre-processing with ANSA for Moldex3D
Duration	3 days (24 hours)
Level	Entry
Who should attend	CAE analysts who work on various disciplines and do not have experience in ANSA or the basics in pre-processing.
Training description & objectives	This course introduces participants to the basics of pre-processing with ANSA. The covered topics include: − CAD translation and import, − geometry handling, − surface and volume mesh generation and improvement, − basic solver entities and − common practices for Moldex3D Upon course completion, the participant will become familiar with the ANSA interface and able to accomplish the essential steps needed to deliver a meshed file that can be used for structural analysis applications. − Geometry healing & reconstruction, − surface & solid mesh generation and improvement, − layers extraction − model checking and − set up a model for Moldex3D are some of the tasks that users will be able to perform upon the completion of this course.
Prerequisites	Basic knowledge of FEA is required.
Suggestions	This course is a prerequisite for users that wish to attend any of the advanced ANSA courses.
Language	English, German, French, Italian, Swedish *ask for more languages*

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Suggested topics
Day 1
- Introduction   - Main terms and GUI   - CAD translation   - Geometry healing   - Middle surface extraction   - Managing of assemblies: Model Browser   - Generating injection molding specialized geometries
Day 2
- Surface meshing   - Batch meshing   - Surface mesh improvement   - Handling FE mesh   - Penetration checks
Day 3
- Volume meshing + layers extraction   - Introduction to solver decks   - Handling of pipe elements   - Set up a model for Moldex3D   - Mapping results

Course content is subject to change without notice.
Course content may be adjusted to audience requirements or background.