Introduction to pre-processing with ANSA

Training	Introduction to pre-processing with ANSA
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, – model assembly and – basic solver entities. – solution with Epilysis 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, – connections handling and assembly, – model checking and – common solver entities definition 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: part manager
Day 2
– Surface meshing – Batch meshing – Surface mesh improvement – Handling FE mesh – Improving the result of middle surface extraction – Penetration checks
Day 3
– Volume meshing – Assembly – Introduction to solver decks – Introduction to Epilysis

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