Midsurface modeling with ANSA - Masterclass

Training	Midsurface modeling with ANSA - Masterclass
Duration	2 days (16 hours)
Level	Advanced
Who should attend	CAE analysts whose part of their job is to model solid geometries of thin parts as 2D middle surface geometries and mesh
Training description and objectives	A common practice on Finite Elements Analysis modeling of solid geometries of thin parts as 2D middle surface geometries and mesh. Although middle surface modelling is a time consuming task, involving a lot of effort, ANSA offers tools and methods that expedite the middle surface construction process. This is a Masterclass course on the ANSA tools and the optimal methods for the middle surface modeling. Upon course completion, participants will be able to : – Easily identify the optimal middle surface extraction method – Extract the middle surface from one or many stamped parts, simultaneously – Set up the parameters and extract the middle surface mesh from intricate casted parts – Handle FE model mesh in order to improve the result – Convert nodal thickness values to thickness based on properties – Extract the middle surface from extruded parts – Assign materials and properties – Perform middle surface checks and fix any problems
Prerequisites	Participants should have an engineering background. Basic knowledge of ANSA is necessary.
Language	English, German **ask for more languages*

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Suggested topics
Day 1
– Introduction to middle surface creation – Handling of stamped parts: prerequisites, options, variable thickness parts, checks, improvement, examples – Handling of intricate casted parts 1st approach: prerequisites, options, examples – Handling of extruded parts
Day 2
– Handling of intricate casted parts 2nd approach: introduction, parameters, checks, improvement tools and techniques, thickness handling, tips & tricks

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