

Advanced post-processing with META for Durability analyses

Training	Advanced post-processing with META for Durability analyses
Duration	1 day (8 hours)
Level	Advanced
Who should attend	CAE analysts who analyze durability models and have experience in post-processing with META.
	This advanced course, introduces participants to advanced META tools and techniques for evaluating/calculating results from durability analyses.
Training description and objectives	 Upon course completion, participants will be able to : explode parts of the 3d model calculate and display results on contact surfaces transform data and results with respect to a different coordinate system handle different display styles, store and re-apply them perform calculations between loaded results create new results as a linear combination of already available ones display and calculate forces and moments in cross sections calculate the torsion angle and stiffness of a vehicle body map results from one model to another create custom paths for viewing results, apply strain gauges and perform stress linearization perform a bore distortion analysis plot results on a Haigh diagram calculate the Dang Van, Crossland and Sines equivalent stresses
Prerequisites	Basic knowledge of durability principles and META.

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Suggestions	 This course can be combined with the trainings: ANSA for Durability analyses pre-processing. Introduction to post-processing with META. META basics for Durability analyses post-processing.
Language	English, German, French *ask for more languages

Suggested topics

Day 1

- Explode parts
- Results on contact surfaces
- Local coordinate systems
- Reading/transforming units
- Vector display settings
- Handling display styles for 3D models and 2D plots
- Connection Manager
- Post processing of critical areas
- Calculated states
- Linear combination of results
- User field function
- Section forces
- Stiffness calculation
- Map results
- Parametric point paths and strain gauges
- Stress linearization
- Bore distortion analysis
- Haigh Diagram
- Multi-axial criteria

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