

## Advanced post-processing with META for Durability analyses

<b>Training</b>	Advanced post-processing with META for Durability analyses
<b>Duration</b>	1 day (8 hours)
<b>Level</b>	Advanced
<b>Who should attend</b>	CAE analysts who analyze durability models and have experience in post-processing with META.
<b>Training description and objectives</b>	<p>This advanced course, introduces participants to advanced META tools and techniques for evaluating/calculating results from durability analyses.</p> <p>Upon course completion, participants will be able to :</p> <ul style="list-style-type: none"> <li>– Create new results as a linear combination of already available ones,</li> <li>– calculate results from user defined formulas,</li> <li>– display and calculate forces and moments in cross sections,</li> <li>– calculate the torsion angle and stiffness of a vehicle body,</li> <li>– display contour areas of the same value with the Isofunctions tool,</li> <li>– transform data and results with respect to a different coordinate system,</li> <li>– post process on solids (calculate and display results on contact surfaces, stress linearization),</li> <li>– perform a bore distortion analysis,</li> <li>– post process composite materials and identify failed elements and layers,</li> <li>– map results from one model to another,</li> <li>– read CEL and crack propagation results.</li> </ul>
<b>Prerequisites</b>	Basic knowledge of durability principles and META.



<b>Suggestions</b>	This course can be combined with the trainings: <ul style="list-style-type: none"><li>– ANSA for Durability analyses pre-processing.</li><li>– Introduction to post-processing with META.</li><li>– META basics for Durability analyses post-processing.</li></ul>
<b>Language</b>	English, German, French <i>*ask for more languages</i>

<b>Suggested topics</b>
Day 1
<ul style="list-style-type: none"><li>– Linear combination of results</li><li>– User field function</li><li>– Section forces</li><li>– Stiffness calculation</li><li>– Isofunctions tool</li><li>– Data and results transformation</li><li>– Local coordinate systems</li><li>– Results on contact surfaces</li><li>– Advanced view options for results</li><li>– Stress linearization</li><li>– Bore distortion analysis</li><li>– Composites</li><li>– Map results</li><li>– Crack propagation</li></ul>

*Course content is subject to change without notice.*

*Course content may be adjusted to audience requirements or background.*