

## NVH Console

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| <b>Training</b>                            | Training on NVH Console   |
| <b>Duration</b>                            | 2 days (16 hours)   |
| <b>Level</b>                               | Advanced  |
| <b>Who should attend</b>                   | CAE analysts who analyse NVH models based on reduced models   |
| <b>Training description and objectives</b> | <p>This advanced course demonstrates the suite of BETA CAE Systems (NVH Console) for evaluating/calculating NVH results.</p> <p>Upon course completion, participants will be able to use the standard GUI functionality of NVH console (diagram view, search, comparisons, coordinate systems), to create and handle reduced models, assemble components to form sub-assemblies, to create load cases, to post-process standard NVH results, conduct advanced Root Cause Analysis using Component Mode participations, System Mode participations, TPA, Animations of Operating Deflection Shapes, Grid Participations, Energy maps and Bush sensitivity, to handle different configurations and use I/O of XML files for collaborative work on a model, to compare NVH results from different runs in META, to use of advanced functionality of META for post-processing NVH results (including specific toolbars)</p> |
| <b>Prerequisites</b>                       | Basic knowledge of the NVH principles and ANSA & META is required.  |
| <b>Suggestions</b>                         | <p>This course can be combined with the trainings:</p> <ul style="list-style-type: none"> <li>– ANSA for NVH analyses pre-processing</li> <li>– Introduction to post processing with META</li> <li>– META basics for NVH analyses post-processing</li> </ul>  |
| <b>Language</b>                            | <p>English, German, French</p> <p><i>*ask for more languages</i></p>  |



| Suggested topics   |
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| Day 1  |
| <ul style="list-style-type: none"><li>– Pre-requisites to set-up a model in NVH Console</li><li>– Handling components / Creation of reduced models for components / Other types of reduced components (Rigid Bodies, Beams)</li><li>– Assembly – specific connector types in NVH Console</li><li>– Handling and creation of coordinate systems</li><li>– Compare functionality in NVH Console</li><li>– Configurations and XML I/O</li></ul> |
| Suggested topics   |
| Day 2  |
| <ul style="list-style-type: none"><li>– Load cases and Load case Manager</li><li>– Output assembly in Nastran and drive Nastran</li><li>– Calculations based on reduced models</li><li>– Advanced Root cause analysis</li><li>– Post-processing of results and comparison of results from different runs</li><li>– Advanced post-processing</li></ul>  |