

Post-processing automation and scripting with META

Training	Post-processing automation and scripting with META
Duration	2 days (16 hours)
Level	Intermediate
Who should attend	Mixed team of CAE analysts who work on various disciplines and have experience with META and post processing.
Training description and objectives	<p>This course teaches participants how to create repeatable tasks and automate processes in META.</p> <p>Upon course completion, participants will be able to :</p> <ul style="list-style-type: none"> – Create and parameterize session files, – use overlay functionality, – create and handle variables, – get data from built-in functions, – create and manipulate custom toolbars, – use the embedded Python scripting language, and – combine the above automation tools
Prerequisites	Basic knowledge of META is necessary. Basic knowledge of python is helpful.
Suggestions	<p>This course can be combined with any META training :</p> <ul style="list-style-type: none"> – Introduction to post processing with META – META basics for Crash simulation post-processing – META basics for Durability analyses post-processing – META basics for NVH analyses post-processing – Advanced post-processing with META for Crash simulation – Advanced post-processing with META for Durability analyses – Advanced post-processing with META for NVH analyses



Language	English, German, French <i>*ask for more languages</i>
-----------------	---

Suggested topics	
Day 1	
<ul style="list-style-type: none">- Introduction<ul style="list-style-type: none">a) About META automationb) META automation tools overview- Session files<ul style="list-style-type: none">a) META commands and session fileb) Execution of session filesc) Parameterization of session filesd) Useful notes about session- Overlay<ul style="list-style-type: none">a) Overlay sessionsb) Overlay projects- Variables and built in functions<ul style="list-style-type: none">a) Variablesb) Built in functions- User toolbars<ul style="list-style-type: none">a) Create and use user toolbarsb) Handle toolbar entitiesc) User toolbar from session editord) Share user toolbars among users	
Day 2	
<ul style="list-style-type: none">- Scripting<ul style="list-style-type: none">a) Script main featuresb) Script editorc) Execution of scriptsd) META object classes and keywordse) META commands, variables, built in functionsf) Get node/element/material/etc datag) Collect entities according to attributesh) Get results and measurementsi) Create and edit entitiesj) Select files and directoriesk) Load geometry and resultsl) Create field resultsm) Load and create curvesn) Get and edit curves and points	

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