META basics for
Crash simulation post-processing

Training	META basics for Crash simulation post-processing
Duration	2 days (16 hours)
Level	Entry
Who should attend	CAE analysts who analyze crash models and do not have experience with META.
Training description and objectives	This course introduces participants to the basics of post-processing crash results with META. Upon the completion of this course, participants will become familiar with the graphical interface and able to: – Load and handle the FE model, – load, calculate, display and animate results, – make queries on entities (nodes, elements, etc), – identify minimum and maximum values, – manage data in tabular format, – annotate on entities, – create and handle 2D plots, – calculate crash criteria, – compare models, – export images, videos, data in text format, – generate reports.
Prerequisites	Basic knowledge of the crash simulation principles is required.
Suggestions	This course can be combined with the trainings: – ANSA for Crash simulation pre-processing. – Advanced post-processing with META for Crash simulation.
Language	English, German, French, Swedish *ask for more languages*

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Suggested topics
Day 1

− Introduction
− Loading model and handling geometry
  a) Read Geometry
  b) Views, Entities visibility
  c) Drawing Styles
− Reading and viewing results
  a) Load Results
  b) Animation
  c) Undeformed States
  d) Cut Planes
  e) Fringe (contour) plots
− Queries
  a) Identification (min, max values, distances)
  b) Advanced Filter
  c) Statistics
  d) Annotations
  e) Failed Elements

Day 2

− Intrusions
  a) Displacements and Velocities
  b) 3d and 2d results
− 2D Plot
  a) Curves from Time History files / 3d results
  b) Curve Functions (statistics, filters, calculations, user defined)
  c) Handling of curves among plots / windows
  d) Crash Criteria
− Compare Models
  a) Second Model on the same / different window
  b) Window dependent actions – Enabled Windows
  c) Synchronization of 3d models with 2d results
− Export Files
  a) Export images
  b) Export Videos
  c) Export METADBs / META Projects
  d) Export Curve Data
− Reporting
  a) Report Composer (pptx, html, pdf)
  b) Spreadsheet Editor

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

physics on screen