BETA
SIMULATION SOLUTIONS

physics on screen

Advanced post-processing with META for Crash simulation

Training	Advanced post-processing with META for Crash simulation
Duration	1 day (8 hours)
Level	Advanced
Who should attend	CAE analysts who perform crash analysis and have previous experience of post processing with META .
Training description and objectives	This course introduces users, already familiar with META, to advanced META tools and techniques for evaluating/calculating results from crash analyses. Upon the completion of this course, participants will be able to : – Display and animate results. – Overlay the model on different time instants – Handle airbag particles (LS-DYNA) – Calculate the firewall's max intrusion – Identify failed elements – Measure distances between entities – Calculate proximity between models or groups – Detect the colliding areas between groups – Calculate roll, pitch and yaw angles – Create and handle 2D plots – Calculate forces and moments on cross sections – Compare models – Match and synchronize videos with FE model – Track results on videos.
Prerequisites	Basic knowledge of the crash principles and META is required.
Suggestions	This course can be combined with the trainings: – ANSA for Crash simulation pre-processing. – Introduction to post-processing with META. – META basics for Crash simulation post-processing.

BETA CAE Systems International AG

D4 Business Village Luzern, Platz 4
CH-6039 Root D4, Switzerland

T +41 415453650
F +41 415453651

ansa@beta-cae.com
www.beta-cae.com

Language	English, German, French, Swedish **ask for more languages*

Suggested topics
Day 1
– Display results and animations a) Undeform states b) Airbag particles (LS-DYNA) – Results query a) Max intrusions b) Failed elements – Measurements a) Distances between entities – proximity check b) Collision – intersections check c) Roll, pitch and yaw angles – 2d plot post processing a) Curves creation b) Curves handling c) Queries and calculations – Calculation of results a) Section forces – Models' comparison – Video handling a) 3d model and video matching and synchronization b) Tracking results on video

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