



Class Locations:

Livermore Software Technology Corp.

7374 Las Positas Rd. Livermore, CA 94551

1740 West Big Beaver Road Troy, MI 48084

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Airbag Folding

Instructor: Raghu Chivukula, LSTC

2 Days - \$400 Students \$200 w/student ID

Includes on site continental breakfasts, lunches, breaks, class dinner

Includes 30-day LS-DYNA demo license to practice

Prerequisite: Students should already be familiar with LS-DYNA

Description: This two day class provides an introduction to airbag folding and morphing strategies in LS-DYNA/LS-PREPOST. The operations of preprocessor based airbag folding and simulation based airbag folding are presented in detail, along with a step-by-step procedure to aid the implementation of these folding operations. Workshops demonstrating each stage of folding and morphing operations are provided to assist the learning process. It provides a platform to implement various folding patterns, while tuning the occupant response, without having to wait for the delivery of folded mesh from external teams.

Contents

- Introduction
- Overview of Airbag Folding Methodologies
- Applications of Airbag Folding
- LS-PREPOST (Preprocessor) Based Airbag Folding Methodology
 - ABFOLD Toolbox
 - Thin Fold
 - Thick Fold
 - Tuck Fold
 - Spiral Fold
 - Airbag Reference Geometry Verification and Morphing Tools
 - Workshop
- LS-DYNA (Simulation) Based Airbag Folding Methodology
 - DynFold Toolbox
 - SPC Tool
 - Load Mesh Tool
 - BPFM Tool
 - Stitch Tool
 - Tuck Tool
 - Simulation Folding Modeling Practices
 - Workshop
- Passenger Airbag Morphing
 - PAB Morphing Toolbox
 - Workshop
 - Additional Morphing Tools