



Livermore Software Technology Corp.

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Metal Forming Training using LS-PrePost® and LS-DYNA®

Instructors: Xinhai Zhu, Quanqing Yan, Li Zhang, Yuzhong Xiao

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

Description: This course will review some of the important metal forming features developed in LS-DYNA. Using the hands-on workshops provided, students will be able to use LS-PrePost and its metal forming interface to generate required input files for LS-DYNA and conduct metal forming simulations.

Course Contents:

Part I: LS-DYNA Basic and Advanced Metal Forming Features (Day 1)

- 1) Introduction
- 2) Overview of LS-DYNA and its application in forming simulation
- 3) Parameters affecting forming accuracy, especially for springback prediction
- 4) Feasibility analysis
- 5) Overview of some important features, such as implicit method, blank size and trimming curve development, Yoshida kinematic hardening, one-step method, etc.
- 6) Material failure prediction.

Part II: LS-PrePost Introduction and Metal Forming Interface (Day 2)

- 1) Overview of LS-PrePost4.3 on the Metal Forming GUI (Ispp_parameter, configuration files, etc.)
- 2) LS-PrePost general operation - Workshop P1
- 3) Mesh editing - Workshop P2, P3
- 4) Mesh transformation - Workshop P4
- 5) Mesh generation - Workshop P5
- 6) Tool & blank mesh - Workshop 1
- 7) Tooling offset & check - Workshop 2
- 8) Multi-stage process simulation - Workshop 3
- 9) Post-processing forming and springback results - Workshop 5 (NUMISHEET2002 Fender Outer) (180 min)
- 10) Configuration run script and batch queue submit program (Job Manager), etc.