



Locations:

Livermore Software Technology Corp.

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Advanced Metal Forming

Instructor: Xinhai Zhu and Li Zhang, 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-PrePost and basic LS-DYNA metal forming features, such as those in LS-PrePost Metal Forming Application GUI eZ-Setup.

Description: This two day class will be presented with PowerPoint presentation combined with hands-on tutorials.

Day 1

- One-step forming program.
- 2-D, 3-D trimming on solid elements.
- A flexible D3PLOT output method.
- Instant and progressive lancing.
- Overview of material models for metal forming, with emphasis on *MAT_036, *MAT_037 and *MAT_125.
- Formability Index for the nonlinear strain path.
- Blank size development

Day 2

- Tool mesh autocheck, fixing.
- Implicit application in forming, flanging and springback on fixture.
- Iterative springback compensation.
- Bestfit: between scan data and springback panel.
- Directional and pressure dependent friction model.
- Scrap trimming for trim die engineering.