Introduction to LS-PrePost®

Instructor: Philip Ho, or Q. Yan

1 Day - No Fee, Students No Fee w/student ID
Includes on-site continental breakfast, lunch, breaks and class notes
Includes 30-day demonstration license

Prerequisite: Not Required

Objective: Attendees will learn to use LS-PrePost® to prepare keyword input files for LS-DYNA® and post-process the results.

Description: LS-DYNA® users will gain knowledge of LS-PrepPost® to better understand and to use pre and post processing for LS-DYNA® analysis data.

Contents:

- Overview
  - GUI (graphical user interface) Tour
  - Transition Tips (old v2.4 interface to v4.x new interface)
  - Menus & Toolbars
- General Operations
  - Part Selection
  - Model Selection & Compare
  - Groups & Views
  - Part Colors
  - Annotations
  - FE General Selection Interface
  - Identifying & Blanking (masking)
  - Workshop 1
- Mesh Generation
  - Shape Mesher
  - Auto Mesher
  - N-Line Mesher
  - Solid Mesher
  - Tet Mesher
  - Block Mesher
  - Spotweld Generation
  - Workshop 2
Pre-Processing
- Element & Node Editing
- Normals
- Detach & Merge (duplicate nodes)
- Element Generation (beams, shells, and solids)
- Workshop 3
- Model Checking
- Entity (keyword) Display
- Find Attached
- Move/Copy
- Offsetting, Translation, Rotation, Reflection, Projection, Scaling, Transformation
- Mesh Smoothing
- Part Trimming
- Workshop 4
- Part & Set Data Management
- Entity (keyword) Management (SPCs, Velocities, Rigidwalls, Cross Sections, History Databases, Boxes, Vectors, Coordinate Systems, Accelerometers, Masses, Spotwelds, Rigid Constraints)
- Combining Keyword Files
- Manual Keyword Editing
- Saving Keyword Files
- Workshop 5 and Workshop 6 (building runnable input files from scratch)

Post-Processing
- Animation Interface
- Fringe (contour) Plotting
- Time History Plotting
- Plot Window Operations
- ASCII & BINOUT Data Plotting
- Node Tracing
- Vector Plotting
- Measurements
- Section Cutting
- Workshop 7 and Workshop 8

Command File and Macros
- Generating & Executing Command Files
- Setting up Function Keys
- Workshop 9
- Configuration