



Class Locations:

Livermore Software Technology Corp.

7374 Las Positas Rd. Livermore, CA 94551

1740 West Big Beaver Road Troy, MI 48084

Contact: classes@lstc.com

www.lstc.com/training

Occupant Simulation in LS-DYNA

Instructor: Sarba Guha (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 be familiar with LS-DYNA & LS-Pre_Post (LSPP)

Description: Hands-on training class. This application oriented class is designed to make students more proficient at Occupant Modeling using LSPP, LS-DYNA and the LSTC 50th% and 5th% H-III Dummy Models.

Day 1: General

- Review some of the intricacies of the Seat-Belt, Sled and Airbag Models
- Proceed to Occupant Modeling Workshops if time remains

Day 2: Occupant Modeling Workshops (Hands On)

- Getting familiarized with many Occupant Modeling features within LSPP
- Dummy Positioning Exercise and "Offsetting/Renumbering Dummy IDs"
- Plotting "Dummy Injury Channels"
- Seat-Belt Routing; Plotting "Seat-Belt & Retractor Forces and Belt Payout"
- Replacing a 5th% Dummy with a 50th% Dummy and readjusting the Belt

Upon Completion Attendees Will Be Able To.....

- Position a Dummy on a Sled, route a Belt on it, apply a Pulse and run the Model
- Learn the basics of Injury Channel Plotting
- Adjust a running model to suit a different condition
- Swap Dummies and readjust Belt Models to create a new Model
- Get to know some of the most essential features of LSPP to do all of the above
- Adapt example models to their own vehicle environments and apply the knowledge to evaluate restraint system designs