



Class Locations:

Livermore Software Technology Corp.

1740 West Big Beaver Road Troy, MI 48084

Contact: classes@lstc.com

www.lstc.com/training

Airbag modeling in LS-DYNA

Instructor: Amit Nair, 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 class will introduce all concepts of Airbag modeling using LS-Dyna. Starting with mesh generation, fabric modeling, control volumes, Particle bags and Post processing. Hands on Exercises with help user familiarize the techniques.

Day 1

- Introduction, Mesh generation, Control Volumes, Fabric modeling
- Airbag Contacts, multi chambers, venting
- Particle Bags introduction

Day 2

- Tank tests and gas modeling gas behavior
- Airbag behavior control, tethers, Morphing, Units used
- New CPM developments and usage
- Pros and Cons of using CPM Methods

Examples and Exercises

- Mesh Generation
- Airbag Hybrid
- Jetting and Multi-chambers
- Particle Bag
- Venting
- Reference Geometry
- Morphing bags
- Tether
- Deformable To rigid