



## Contact LS-DYNA Training Class

Class Location: **Livermore Software Technology Corporation**  
7374 Las Positas Road  
Livermore, CA 94551

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### **Objective of the course**

Discuss all contact types in LSDYNA. Learn how to define contact and how contact works in LS-DYNA to solve engineering problems. Examples are used to illustrate the points made in the lectures

### **Who should attend**

This course is recommended for engineers who want to understand and better define contact surfaces in LS-DYNA to run problems involve crash and impact simulations. This course is useful for engineers and researchers who are working in the area of crashworthiness, general impact and drop simulation, and other problems that involved defining contact surfaces.

**Lectures begin daily at 9:00 a.m. and run until 5:30 p.m.**

### **COURSE CONTENTS:**

- Introduction
- Contact formulations
- Contact Algorithm
- Contact types
  - Nodal base contact search
  - Segment based contact search
- Penalty method
- Automatic versus non-automatic contact
- Friction
- Nodal release criteria in contact
- Contact parameters
- Contact in explicit versus implicit time integration
- Post-processing Contact
- Modeling techniques for contact
- Thermal contact
- Workshop

There will be several examples, which are designed to understand and reinforce the lectures and the concepts presented. The course will provide users with experience of running and trouble-shooting LSDYNA contact analysis.