



Locations:

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ON LINE

Contact in LS-DYNA

Instructor: Dr. Ala (Al) Tabiei

2 Days - \$1,000 Students \$500 w/student ID

Includes 30-day LS-DYNA demo license to practice

Prerequisite: Introduction to LS-DYNA Class, or equivalent experience.
Students should have a knowledge of the LS-DYNA keywords and options associated with Contact.

Description: The class is designed for students to use LS-DYNA to analyze and define contact and how contact works in LS-DYNA for crashworthiness, general impact, drop simulation and other problems that involve defining contact surfaces.
Examples are used to illustrate the points made in the lectures.

- **Contents**
- **Introduction**
- **All 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**
- **List of all 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 troubleshooting LS-DYNA contact analysis.