



Livermore Software Technology Corp.

Locations:

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Implicit in LS-DYNA

Instructor: Dr. Ala (Al) Tabiei atabiei@lsdyna-online.com

2 Days - \$750 Students \$375 w/student ID

Includes on-site continental breakfasts, lunches, breaks, class dinner

Includes 30-day LS-DYNA demo license to practice

Description: This course is designed for students to use LS-DYNA to analyze implicit problems. The class will provide analysts with the additional tools and knowledge required to model long duration simulations and static problems. Workshop examples are designed to understand and reinforce concepts presented in the lectures.

Course Contents:

1. Implicit versus Explicit, the difference
2. Equilibrium, Nonlinearity, and Linearization
3. Activating the Implicit Solver
4. Material Models and Element Types
5. Contact for Implicit
6. Eigenvalue Analysis
7. Dynamic Analysis using Modal Results
8. Springback
9. Additional Implicit Features
 - Explicit-Implicit Switch
 - Buckling Analysis
 - Control Implicit Termination
 - Inertia Relief
 - Consistent Mass
 - Condensation
10. Implicit in MPP
11. Linear Equation Solver
12. Practical Guidelines
13. Trouble Shooting and Ways to Battle Divergence
14. Summary