

## LS-DYNA, Introductory Course

LS-DYNA has become a leading finite element (FE) program in large deformation mechanics, vehicle collision simulations and crashworthiness design as well as for metal forming simulations. This course will give a practical and theoretical introduction to LS-DYNA.

**Prior knowledge:** The course is suited for users with a limited experience of the program that want an overview of the LS-DYNA possibilities.

### Course outline:

- Introduction and application examples
- Implicit and explicit finite element methods
- Keyword format
- Elements
- Material models
- Rigid bodies
- Initial conditions
- Boundary conditions
- Constraints
- Contacts
- Control parameters
- Output format and output files
- Pre and post processing with LS-PREPOST
- Selected exercises throughout the course

The course is given by the staff of Engineering Research Nordic AB.  
The number of accepted course attendees is limited to 12.

**Place:** Fars Hatt, Gothenburg

A roadmap is available on <http://www.erab.se>.

**Date:** See <http://www.erab.se/courses>

**Schedule:** The course starts at 09<sup>00</sup> the first day and 08<sup>30</sup> the following days.  
The course ends at approximately 17<sup>00</sup>. On the last day of the course, the course ends at 16<sup>00</sup>.

**Course fee:** The course fee includes course notes, lunches, refreshments and one evening meal, excluding VAT. See <http://www.erab.se/courses> for actual course fee. Hotel accommodation is not included in the course fee

**Registration:** Online registration at <http://www.erab.se/courses>

**Confirmation:** A confirmation will be sent out by e-mail upon registration.

**Cancellation:** Classes can be cancelled up to 10 days before course start if the number of attendees is too small. Any fees paid to ERAB will be returned if the class is cancelled. For cancellations by attendees received later than two weeks before course start the attendee will be invoiced 50% of the course fee.

**Questions:** E-mail [course@erab.se](mailto:course@erab.se)