

## Polymeric Materials in LS-DYNA

This course is intended for those who are working or plan to work with simulations that include polymeric materials. LS-DYNA is a leading finite element program in large deformation mechanics, crashworthiness design and metal forming simulations.

**Prior knowledge:** Attendees are expected to have a basic understanding of the finite element method and LS-DYNA.

**Course outline:**

- Introduction to material models
- Elastic foams
- Crushable foams
- Elasto-plasticity
- Polymers in small strain
- Polymers in large strain
- Rubber and elastomers

The course is given by Paul du Bois, who has a very long experience from crash FE analyses. He has been consulting for all leading automotive industries.

The number of accepted course attendee is limited to 12.

**Place:** ERAB's office, Garnisonen, Linköping.

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>

**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)