



Paul Du Bois is an expert in crashworthiness simulation and has experience working with multiple car manufacturers.

- Crash simulation with LS-DYNA
- Events Blast Modelling with LS-DYNA
- Penetration Modelling with LS-DYNA
- Explosives Modelling for Engineers

Paul Du Bois
Trainer

Automotive Crashworthiness

Course Objective

LS-DYNA is widely used in the automotive sector for crash worthiness analysis. These simulations are a balance between accuracy and time taken. Currently there are no guidelines regarding crash modelling. Therefore, knowledge of different analysis methods is essential. Topics covered in this course:

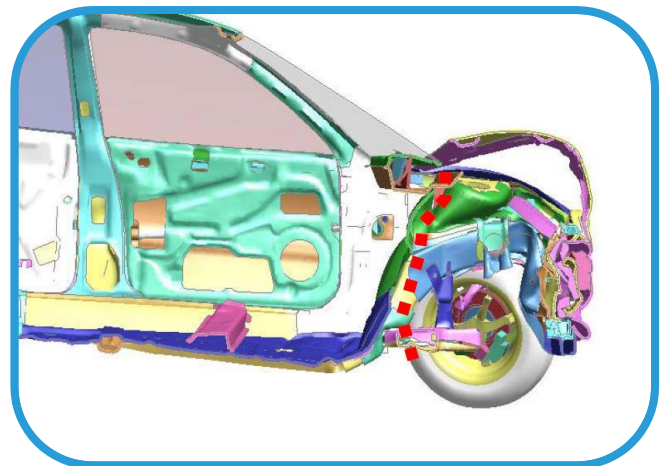
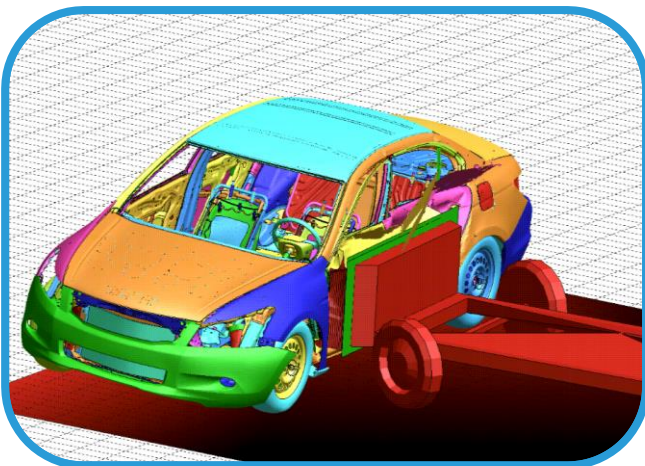
- › Introduction to crash simulation using LS-DYNA
- › Modelling techniques for parts of car bodies
- › Influence of the mass of components
- › Contact definition for crash simulation
- › Element formulation for shells and volume elements
- › Hourglass stabilisation
- › Many more

The aim of this course is to demonstrate how to perform crash worthiness simulation. The attendees will gain knowledge how to preform an accurate and reliable simulation by thorough modelling and understanding the procedure. The skills are transferrable to other simulations like rail vehicles, vehicle components and airplanes.

For who?

The crash analysis course is an advanced course that applies to engineers who already have experience in the application of explicit programs or knowledge in the field of dynamic and non-linear calculations with implicit programs.

PRICE: £ 1600 + VAT



Location: The Arup Campus, Blythe Gate, Blythe Valley Park, Birmingham, Solihull B90 8AE