

DYNA4 Fundamentals

Agenda VectorAcademy

Delivery Format:	This Course is offered in Classroom Format
Duration:	2 Days
Target Group:	Application Engineers in the field of model-based vehicle and environment simulation (vehicle dynamics, ADAS, HEV, BEV, Engine ECU function development and test)
Prerequisites:	none
Goal:	Efficient use of the software, capability to realize the steps to prepare and run a simulation: Manage all data that define a simulation project, Parameterize the vehicle model, Define test scenarios, Run simulations, analyze and visualize simulation results

1. DYNA4 Architecture

- > Modular Implementation in Simulink
- > Component models in different levels of detail
- > Extendability by the user

2. Definition of vehicle model parameters

- > Model data structure
- > Using GUI functions for data editing and data management

3. Definition of test scenarios

- > Result data selection
- > Environment definition
- > Vehicle control

4. Execution of Simulations

- > Execution of single scenarios
- > Automated simulation runs

5. Visualization and analysis of simulation results with DYNAanimation and Plot GUI

- > DYNAanimation
- > Plot GUI