

DYNA4 – Simulation Model - Background Engine

Agenda VectorAcademy

Delivery Format:	This Course is offered in Classroom Format
Duration:	1 Day
Target Group:	Application engineers and developers in the field of function development and function test of engine ECUs
Prerequisites:	DYNA4 Fundamentals
Goal:	Understand the model approaches of the relevant components of the simulation model (engine model and engine model components) and the corresponding model parameters. Efficient use of the engine preprocessing tool.

1. Introduction of the simulation model

- > Modular model structure in Simulink
- > Overview engine model variants and corresponding control units
- > Integration of supplied engine models in the vehicle model

2. Introduction of the component model approaches of the engine and the engine parts

- > Mean value model approach (Engine Basic) with corresponding model parameters
- > Thermodynamic model approach (Engine Thermo) with corresponding model parameters

3. Engine Preprocessing

- > Parametrization of the models using standard measurements
- > Operation of the Pre-Processing Tool