

FlexRay

Agenda VectorAcademy

Delivery Format:	This Course is offered in Remote Format
Duration:	6 hours
Target Group:	FlexRay Users, ECU Developers
Prerequisites:	Basic understanding of serial data transmission
Goal:	Knowledge about physical characteristics of a FlexRay network and characteristics of the FlexRay protocol

1. Introduction to FlexRay

- > Electronification of motor vehicles
- > Motivation for the development of FlexRay
- > FlexRay consortium and specification
- > Differences between CAN and FlexRay
- > Physical topologies
- > Signal transmission and voltage levels
- > Node architecture and termination
- > Introduction to Synchronization

2. Synchronization, Communication Structure and Bus Access

- > Synchronization mechanism
- > Wake-Up and startup
- > Time hierarchy
- > Re-Synchronization on bit level
- > Communication cycle
- > Static and dynamic segment
- > Frame format
- > Bus access