

# MICROSAR Ethernet Basics E-Learning

Agenda VectorAcademy

<b>Delivery Format:</b>	This Course is offered in Blended Learning Format. The content will be learned via E-Learning in a period of two months and there will be one accompanying Remote Q&A session per month.
<b>Duration:</b>	16 hours (aprox. needed time for self-study)
<b>Target Group:</b>	ECU developers
<b>Prerequisites:</b>	Knowledge about software development for automotive systems
<b>Goal:</b>	Obtain an overview on the the basics of Flash Bootloaders and detailed information about Vector's Flash Bootloader product.

## 1. Introduction and Basics

- > General Purpose
- > System Overview
- > Flash Bootloader in Use
- > Download Sequence

## 2. Flash Bootloader Architecture

- > Architectural Models
- > Interrupt Handling

## 3. Grundlegende Features

- > Boot Manager
- > ApplVect
- > Transitions
- > Response after Reset
- > Data Sharing
- > Stay in Boot
- > Flash Driver
- > Flash Segmentation
- > Flash Partitioning
- > Memory Partitions
- > Block Validation

## 4. Zusätzliche Features

- > Security and Compression
- > Pipelined Programming
- > Pipelined Verification
- > Bootloader Updater