

# Flash Bootloader

## 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. Basic Features

- > Boot Manager
- > ApplVect
- > Transitions
- > Response after reset
- > Data sharing
- > Stay in Boot
- > Flash Driver
- > Flash segmentation
- > Flash partitioning
- > Memory partitions
- > Block validation

### 4. Additional Features

- > Security and compression
- > Pipelined programming
- > Pipelined verification
- > Bootloader Updater