



Agenda VectorAcademy

FLASH BOOTLOADER (CANFBL) WORKSHOP

Duration:	1 Day
Target Group:	Certified suppliers (software developers for embedded systems) of automotive industries. An appropriate certificate must be attached to the final application form
Prerequisites:	Programming in C
Goal:	Overview of the Flash components and programming them, insight into the software architecture of the Flash Bootloader, using the Flash Bootloader, getting acquainted with security mechanisms

1 | INTRODUCTION TO FLASH PROGRAMMING | 1.0 H

- ▶ Specialties of using internal and external Flash
- ▶ Insight into the functionality of a Flash driver

2 | OVERVIEW OF DIAGNOSTICS SERVICES OF SEVERAL AUTOMOBILE MANUFACTURERS | 1.0 H

- ▶ Diagnostics services of several automobile manufacturers
- ▶ Explanation of these concepts within the overall flow

3 | FLASH BOOTLOADER ARCHITECTURE | 2.0 H

- ▶ Description of the software architecture of Vector's implementation of the Flash Bootloader
- ▶ Getting acquainted with the Bootloader's API and call-back functions

4 | EMPLOYMENT OF VECTOR'S FLASH BOOTLOADER | 2.0 H

- ▶ Configuring the Bootloader with help of the generation tool
- ▶ Adjusting the memory ranges
- ▶ Integrating the call-back functions
- ▶ Software-Download via PC Download Tool CANFlash

5 | FURTHER ASPECTS | 1.0 H

- ▶ Information exchange between Bootloader and application, e.g. fingerprints

6 | QUESTIONS, FEEDBACK, SUGGESTIONS