

Flash Boot Loader Workshop - CANfbl

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

1 Introduction to Flash-Programming (1,0 h)

Objective: Overall view of the Flash components and programming them

Contents: 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)

Objective: Explaining the flow of Flash-programming via diagnostics protocols

Contents: Diagnostics services of several automobile manufacturers are introduced and their concepts within the overall flow explained.

3 Flash Boot Loader Architecture (2,0 h)

Objective: Insight into the software architecture of the Flash Boot Loader

Contents: Description of the software architecture of Vector's implementation of the Flash Boot Loader
Getting acquainted with the boot loader's API and call-back functions

4 Employment of Vector's Flash Boot Loader (2,0 h)

Objective: First experiences in using the Flash Boot Loader

Contents: Configuring the Boot Loader 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)

Objective: Getting acquainted with security mechanisms

Contents: Information exchange between Boot Loader and application as for example fingerprints

6 Questions, Feedback, Suggestions

Objective: Clarification of open issues and open discussion as feedback for Vector