

Phoenix UEFI Training



WHO SHOULD ATTEND

These training sessions are intended for firmware engineers who would like to learn about the UEFI/PI specifications and the EDKII implementation. The course starts with the fundamental concepts of UEFI, progresses to the source code structure, the UEFI driver model and the flow of a UEFI boot, and finishes with the skills needed by firmware engineers to build, customize, and debug UEFI platform firmware using EDKII.

OVERVIEW

- Three-day class
 - * Structured classwork
 - * Lab work
- Attendees will learn
 - * Concepts defined by the UEFI, PI and EDKII specifications
 - * How to write new PEIM, DXE and SMM drivers
 - * Customization and Debugging Techniques

SYLLABUS

- UEFI and EDKII Fundamentals
- UEFI Phases, Variables, Dispatchers, Protocols and PPIs
- PEIM, DXE and SMM Driver Design
- UEFI Applications, such as the UEFI Shell and Setup Utility
- EDKII Build Environment, Library Classes, PCDs and Packages
- Customization of ACPI, Setup Options, Logos and Boot Options
- Important Skills like Secure Programming Basics, Building, and Debugging

DETAILS

- Location of the training will be arranged with the attendees, either at a Phoenix facility or at the attendees' facility
- Dates of the training will be arranged with the attendees
- Quotation for the cost of the training can be obtained from your local Phoenix salesperson
- Requires a minimum number of attendees, as determined by Phoenix
- Requires execution of a contract by the parties



BRIEF AGENDA

▶ Day 1 - UEFI and EDKII Fundamentals

- > Introduction to the UEFI and PI specifications
- > UEFI phases: SEC, PEI, DXE, BDS
- > UEFI variables
- > UEFI protocols and PPIs
- > Introduction to EDKII
- > EDKII build environment
- > EDKII library classes
- > System Management Mode (SMM)

▶ Day 2 - UEFI Advanced

- > UEFI applications and the UEFI Shell
- > UEFI drivers, dispatcher & dependencies
- > Advanced topics: events, HOBs, TPL, UEFI boot
- > Compatibility Support Module (CSM)
- > Setup and Human Interface Infrastructure (HII)
- > Visual Forms Representation (VFR)

▶ Day 3 - Platform and Customization

- > EDKII packages
- > IHV reference code and FSP
- > Customization: PCDs, overrides, library classes
- > Debugging techniques
- > ACPI
- > Secure programming basics

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