Course Description

Course name	**#303 -Embedded Development in Yocto**

Duration	**2 days**
Format	**Public classroom, Inhouse events and Online**

Overview

Mr. Kjell Enblom, Senior Consultant at MindRoad AB, Sweden teaching this 2-day course. Learn how to develop **Embedded Systems using Yocto.**

The course covers the underlying philosophy of Yocto Project and how it relates to other open source projects. We also consider getting started with Yocto development and look in depth at the build system, recipe development and architectures.

Theory is mixed with demonstrations, exercises and discussion, the emphasis being on the latter. The exercises include, for instance: Adding recipes to an image, creating recipes, as well as generating and using SDK's.

After participating in the course, you'll have a good grasp of the opportunities offered by Yocto Project. You'll understand how to develop embedded systems using Yocto and a good insight into the key concepts.

This course is for developers working with Yocto-compatible build systems. Participants are expected to be familiar with Linux/Unix.

Technical Focus

Products built on embedded systems are now ubiquitous, powering devices ranging from small control and measurement units to high end home entertainment systems.

Linux is the natural choice for high performance embedded systems, with native support for architectures such as ARM, Mips and PowerPC. The array of developer tools and vast library support makes it quick and painless to get a system up and running, allowing developers to focus on their product.

Yocto Project is presently the most widely used tool for developing embedded systems on Linux.

Course Content

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Who Should Attend
Developers working with Yocto-compatible build systems. Participants are expected to be familiar with Linux/Unix.

Course Daily Schedule

Day 1

- Overview of Yocto Project

- Quick start

- Bitbake

- Recipes -- types, writing, appending, revision, etc.

Day 2

- Classes

- Layers -- layout, design guidelines, available layers

- Yocto Kernel -- architecture and uses

- SDK generation and use

- Build time reduction -- state cache

Instructor Biography

Mr. Kjell Enblom is a specialist in developing built-in Linux systems and has more than 20 years' experience in system development in C / C ++ programming in the Linux environment. He also has many years of experience in teaching Linux in general and Linux in embedded systems in particular. He has worked with the development of Digital TV systems at Zenterio and at ESDG.

Mr. Enblom has been a member of the Continuing Education Institute - Europe Faculty since 2017.