



## Programmation et conception temps réel

Creating systems that work in real-time is a specific challenge. That's why **ac6-training** provides a range of courses to explain you all the specific techniques and tools to use in this context.

Systems are more and more critical and subject to safety constraints. This training introduces the main concepts and systems applicable to safety critical systems with QoS. **Multi-core Embedded with QoS** 5 days **Inquiry**

Systems are more and more powerful and are now using multicore processors causing specific problems. Embedded real-time programming of multicore processors in the Automotive sector, understanding how to effectively solve problems using the primitives provided by the underlying Operating System. **Multi-core Embedded** 5 days **Inquiry**

Real-time systems must be validated early and embedded code especially targeting multicore processors cannot be effectively tested. Understanding how to effectively solve problems using the primitives provided by the underlying OS and processors. **Real-time Embedded** 5 days **Inquiry**

Operating system VxWorks designed to efficiently manage tasks in embedded applications. This Real-time OS gathering essential topics such as task scheduling, synchronization and memory management. This course equips professionals with understanding of real-time systems and programming concepts. It provides a solid foundation in developing VxWorks applications. **Operating system VxWorks** 5 days **Inquiry**

tool configure Device Tree and OpenOCS course explore the ecosystem for embedded systems build system and West memory analysis, user mode, threading, synchronization, mutexes, Zbus, and interrupts. **OpenOCS** 5 days **Inquiry**

Software Architecture with Acme Embedded systems are increasingly complex and therefore can no longer be directly designed using existing schemes. Embedded systems architecture to control and plan other development and integration appropriately. This course will help create these phases efficiently and avoid common pitfalls. It will explain why software Architecture is needed and how architecture processes can be implemented in an efficient manner. **Software Architecture with Acme** 4 days **Inquiry**

and the tools to measure real-time performances. **Real-time Linux** 4 days **Inquiry**

IoT, PSN, Chip course introduce the IoT ecosystem, describe the most used IoT Edge to Cloud Protocols (MQTT, CoAP, HTTP, etc.) and explore particularly network focused course explains how to configure the edge layer of IoT physical devices, communication systems and networks. **IoT, PSN, Chip** 4 days **Inquiry**

FreeRTOS and MbedLTS for a microcontroller based IoT application. It requires previous knowledge of FreeRTOS and programming. **FreeRTOS and MbedLTS** 4 days **Inquiry**

course describes the Texas Instruments ARM Cortex M4F implementation and TI-RTOS real-time programming. **TI-RTOS** 4 days **Inquiry**