



## 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-Safe Critical Systems 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. **Real-time programming of multicore processors** 4 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 the Operating System. **Real-time systems validation** 4 days **Inquiry**

Over the years, course designed to efficiently manage tasks in embedded applications. **Real-time OS for Embedded Systems** 4 days **Inquiry**

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 real-time OS development, enabling participants to design, implement, and debug robust embedded applications. **Real-time OS development** 5 days **Inquiry**

tool, configure Device Tree and expand OS ecosystem. **Real-time OS development** 5 days **Inquiry**

Memory analysis, user mode, threading, synchronization, mutexes, Zbar, and interrupts. **Real-time OS development** 5 days **Inquiry**

Software Architecture with ACPI. Embedded systems are increasingly complex and therefore can no longer be directly designed using existing schemes. Embedded systems are increasingly complex and therefore can no longer be directly designed using existing schemes. Embedded systems are increasingly complex and therefore can no longer be directly designed using existing schemes. **Real-time OS development** 5 days **Inquiry**

and integration appropriately. This course will help create a desired architecture to avoid common pitfalls. It will explain why software architecture is needed and how architecture processes can be implemented in an efficient manner. **Real-time OS development** 5 days **Inquiry**

and the tools to measure real-time performance. **Real-time OS development** 5 days **Inquiry**

MOPTCSN. This course introduces the ecosystem, describe the most used IoT Edge to Cloud Protocols (MQTT, CoAP, HTTP, etc.) and explore practical and network focused course explains how to configure the edge layer of MQTT physical devices, communication systems and network. **Real-time OS development** 5 days **Inquiry**

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

course describes the Texas Instruments ARM Cortex M4F implementation and TIRTOS real-time **Real-time OS development** 4 days **Inquiry**