



Real-Time Operating Systems

As any other computer application, embedded systems must be tailored to the operating system they are running on. Furthermore the, usually quite specific, environment in which these systems will execute often require them to be adapted to their hardware environment.

ac6-training provides trainings to help you create embedded systems using a Real-Time Operating System (RTOS) but also to tailor this RTOS to your needs if you have to. **STG - STM32 + FreeRTOS + LwIP - 5 days - Inquiry**
This course introduces the IoT ecosystem, describe the most used IoT protocols (MQTT, MQTT-SN and CoAP), explore particularly the CoAP, IoT focused attacks and security provisions at each level of stack (physical devices, communication systems and networks). The course explains how to convert previous knowledge of FreeRTOS, FreeRTOS and uBsd to a microcontroller-based IoT application. The Real Time Operating System (RTOS) designed to efficiently manage tasks in embedded applications. The Real Time Operating System (RTOS) course covers the design and implementation of real-time applications using FreeRTOS. The course covers essential topics such as task scheduling and prioritization, real-time system middleware, developer tools and development, enabling participants to design, implement and debug robust embedded applications. The course covers the use of the Texas Instruments ARM Cortex M4F implementation and TI-RTOS real-time programming. **4 days - Inquiry**