

# Sierra Wireless Learning Center Open AT Developer Course

## Course Description

**FORMAT:** classroom, instructor-led    **DURATION:** 3 days

### INTENDED AUDIENCE

This course is designed for Software Engineers, Developers, and Integrators who develop applications with Open AT® OS and its associated Integrated Development Environment, Developer Studio.

### PREREQUISITES

- English comprehension
- C programming experience
- Understanding of AT Commands
- GSM/GPRS knowledge
- Study of the pre-training documents (documents will be sent once the training booked)

### AGENDA

Courses run from 08.30am to 6pm with lunch and refreshments provided.

#### • DAY 1:

Introduction to Open AT®  
Open AT® OS Programming  
Open AT® Application program execution  
Sierra Wireless Tools (M2M studio, JTAG and GDB)  
AT Command Services  
Open AT® Application program compilation  
Sierra Wireless Open AT® Forum  
With practical sessions

#### • DAY 2

OS Services:  
Task management (Multitasking and context service)  
Task communication (Message, Semaphores, Queues)  
Non-volatile storage management  
Real time OS  
Interrupts  
With practical sessions

#### • DAY 3

Timer Services (software, TCU)  
OS Services (Watchdog, Vari-Speed, Error Management, Safe Mode)  
Introduction to TCP/IP  
Bearer Management  
Channels  
Sockets (UDP, TCP)  
With practical sessions



### LEARNING OUTCOMES:

- Overall understanding of Open AT®
- Hands-on experience in designing and developing Open AT® applications using the real-time, multitasking pre-emptive Open AT® Operating System.
- Knowledge of GSM/GPRS related interfaces, the Open AT® Internet and TCP/IP Plug-Ins, and interfacing with various buses.

### DELIVERABLES:

- Sierra Wireless Open AT Tutorial
- A Sierra Wireless USB stick including Sierra Wireless Software Suite, documentations and exercises.
- Official Sierra Wireless Learning Center diploma