

# AVR® & ARM® Cortex® Workshop 102

1 Day, Hands-On Training



**Johannesburg**  
Tuesday, 28 August 2018

**Pretoria**  
Wednesday, 29 August 2018

## OBJECTIVE :

This full-day workshop will introduce delegates to Atmel® Studio 7 and Atmel® Start (Intuitive Graphical Software Configuration) that will be used for both 8-bit AVR® and 32-bit SAM MCUs.

## TOPICS / FOCUS :

The Lab work carried out will be on each attendee's own laptop.

**AVR® MCUs :** Creation of an Atmel® Studio project using the START configurator as well as an alternative approach using Atmel studio project but without the START configurator (Bare-Metal).

**SAM ARM® Cortex® M0+ 32-bit MCUs :** These will be dealt with in detail via a series of labs giving delegates practical experience using the ATSAM21-XPRO development board.

Proficiency in using the Atmel Studio 7 is further developed by completing a series of labs covering bare-metal (without using code configurators or framework libraries) programming of the SAM 32-bit MCUs.

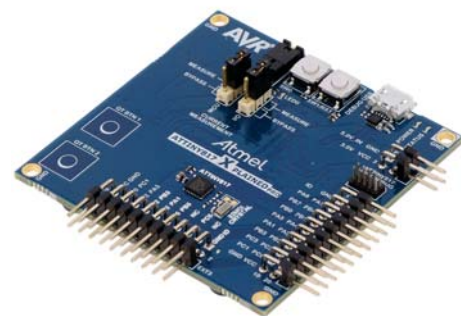
This is not intended to be an in-depth Cortex hardware architecture class, but it is aimed to develop the delegates confidence in writing code for the SAM MCU family using only the data sheets and board circuit diagrams. This experience will give attendees an insight into what the development tools are doing when the attendee uses START.

## DELEGATE REQUIREMENTS :

Development Tools and own Laptop pre-loaded with the required software which will be provided.

## TOOLS REQUIRED/PROVIDED :

- ATSAM21-XPRO – ATSAM21 Xplained Pro
- ATTINY817-XPRO – ATtiny817 Xplained Pro



**R1350**  
incl. VAT p/p  
and Dev Tools  
to keep

All courses start at 08H00. A minimum number of attendees per course will be required to proceed.

If minimum numbers are not reached, pre-registered delegates will be contacted directly to make alternative arrangements.

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