

# Interrupts for 8-bit PIC<sup>®</sup> Microcontrollers

## Hands on

DATE: 5/18/18

TIME: 9:00 am to 4:00 pm

LOCATION: Microchip Technology Regional Training Center, 112 Turnpike Road, Suite 100, Westborough Executive Park, Westborough, Massachusetts 01581

COURSE DESCRIPTION: Use interrupts to control servicing of peripherals and create a simple time slice control system. Students wire up their prototype, write the code, and debug their project on a Curiosity Development Board DM164137 that they will leave with.

PREREQUISITES: Basic familiarity with PIC<sup>®</sup> Microprocessors, C, and MPLAB<sup>®</sup> X

### OUTLINE:

- Introduction to the Curiosity Development Board DM164137
- Interrupts on 8 bit PICs
- Using MCC to quickly set up interrupts
- Structure of an interrupt handler in C
- Using interrupts to service hardware peripherals
- Building a time slice "RTS" using interrupts
- Programming the board using a USB cable

### MATERIALS PROVIDED:

- Curiosity Development Board DM164137 and USB cable
- PDF of presentation.

### REQUIRED:

- Your computer with MPLAB<sup>®</sup> X v 3.15 or later and XC8 v 1.35 or later installed.
- Payment 2 weeks in advance

FEE: \$399.00 per person.

ACCEPTED PAYMENT: Check, PayPal, or Credit Card.

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