

## CAMPBELL SCIENTIFIC DATALOGGER TRAINING COURSE

We have finally set dates for training courses for the rest of 2016. These are

**Hamilton**                      **Thurs 9 - Fri 10 June 2016**

**Christchurch**                **Thurs 27 - Fri 28 October 2016**

This course is designed for beginners with an emphasis on getting familiar with current software and hardware, with many hands on exercises. It will focus on the following datalogger models: CR6, CR1000 and CR800. We will also discuss use of the CR300 and CR200 models. A summary of the topics that are covered is attached. In addition, participants will have a chance to discuss their own particular applications.

### Equipment & Software requirements

All datalogging and sensor equipment is provided. Participants may use either their own laptop or our PCs. It can be an advantage for participants to use their own laptop if they wish to ensure that all relevant files and configurations are correct for their requirements in the field.

The software we use is LoggerNet V4. If participants would like to purchase a licensed copy, or upgrade to the latest version, there is an opportunity to order this below. This is not required to participate as older versions, PC400 or a 30-day trial version of LoggerNet may also be used.

If participants wish to bring their own sensors or hardware to troubleshoot problems or write test programs, with the assistance of the tutors, they are welcome to do so.

### Cost

The cost for the 2 day course is \$900 + gst for the first person from your organisation, and \$750 + gst for any additional participants from the same organisation. Costs include lunches, tea and coffee.

### Venue

At this point in time, the venues are to be confirmed, based on participant numbers. Details will be forwarded to participants nearer to the time.

### Enquiries

If you have any other queries, call Robin McIntyre (**robinm@scottech.net**) or Sam Murray (**samm@scottech.net**) at Scott Technical Instruments.

**Registration:****Datalogger Training Course – 2-day Programming**

Fax to: 07 8470647

OR

Email to: [robinm@scotech.net](mailto:robinm@scotech.net)

OR

Mail to: 89 Colombo St, Hamilton

**Main Contact Details**

Name	
Company	
Address	
Phone	
Email	
Purchase Order Number (if required)	

**Participants**

Name	Email	Rate (excl. GST)	Total
		\$900	\$
		\$750	\$
		\$750	\$
		\$750	\$
LoggerNet – full version		\$1180	\$
LoggerNet – upgrade from earlier version		\$640	\$
PC400 – full version		\$640	\$
Total (excluding GST)		\$	

# TOPICS

## Campbell Scientific Dataloggers – Hardware overview

- Datalogger models and functions (CR3000, CR1000, CR800, CR6, CR300, CR200)
- Peripherals and expansion options
- Types of Inputs / Sensors
- Memory and Data Storage

## Datalogger software – LoggerNet, PC400, Device Configuration

- Connecting to and configuring the logger
- Field data collection
- Data tools
- System verification

## Simple program development using ShortCut

### Program development using CRBasic

- Programme structure
- Sensor Interfacing – analogue & digital sensors
- Processing – statistics, processing priorities
- Data storage and output processing
- Control functions
- Programming exercises

## Communication Options and Problems

- Cellular, ethernet, radio, satellite and wired options
- Automated data collection
- Options for smart phones
- Web display options
- Diagnostic tools in LoggerNet

## Advanced Topics

(there will not be time to cover all topics, so please request what is of most value for your purposes)

- Considerations for more accurate measurement
- More datalogger management tools (File Control, Operating System updates)
- Programming for analogue output and control
- Datalogger to datalogger communication and PakBus networks
- Application specific issues (eg structural, soil moisture, water quality)
- Calibration processes
- Encryption & security
- ftp and html outputs
- others.... (please request)