



**CAMPBELL SCIENTIFIC, INC.**

815 W. 1800 N. • Logan, Utah 84321-1784 • (435) 753-2342 • FAX (435) 750-9540 • [www.campbellsci.com](http://www.campbellsci.com)

December 17, 2003

## **CSI TRAINING COURSE INFORMATION**

Campbell Scientific Inc. offers a three-day training course on the CR9000 Datalogger, PC9000 Datalogger Support Software, and ViewDaq custom real-time monitoring software (Thursday afternoon). This is a comprehensive, introductory level course with an emphasis on programming. "Hands-on" programming exercises and course handouts are used to reinforce the concepts covered by the instructor.

The course is taught by experienced CSI applications engineers. Class size is limited to six attendees to ensure personalized instruction and assistance. Attendees must be familiar with using a personal computer.

Course fees are \$850.00 per person, which includes an update to the current version of PC9000 software, a Training Manual, a coupon good toward the purchase of ViewDaq software, and the use of a CR9000 datalogger, computer, and sensors. Lunch will be provided all three days, and there will be a tour of Campbell Scientific's facilities on the third day.

The training course will be held on the following dates for the year 2004:

January 13, 14, 15

April 20, 21, 22

July 27,28,29

October 19,20,21

## **COURSE REGISTRATION**

Courses are filled on a first-come, first-served basis. To register call Mary Lou Gittins at (435) 750-9556 to confirm availability, and then fax a copy of the registration form to (435) 750-9540. A copy of the registration form with "RECEIVED" stamped on it will be returned by fax to confirm registration. **You are not registered until you have received the faxed confirmation.** Mail a copy of the registration form with payment to the address indicated on the Registration Form.

## CR 9000 / PC 9000 TRAINING COURSE REGISTRATION FORM

**Please Fax form to: 435-750-9540**

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ FAX: \_\_\_\_\_

Course date: \_\_\_\_\_

My application is (check one):

\_\_\_\_\_ Structural Design / Fatigue Analysis

\_\_\_\_\_ Industrial / Automotive

\_\_\_\_\_ Process Control / Automation

**Course fees are \$850, which must be received 7 days prior to the course.**

Method of payment (check one):

\_\_\_\_\_ Payment is enclosed.

\_\_\_\_\_ Credit card (Visa, Mastercharge, American Express)

\_\_\_\_\_ Card Number: \_\_\_\_\_ Exp date: \_\_\_\_/\_\_\_\_

\_\_\_\_\_ Company purchase order.

Mail Registration Form with Payment to:

Campbell Scientific, Inc.

Attn: Mary Lou Gittens

815 West 1800 North

Logan UT, 84321-1784

Cancellations made less than ten days prior to the course will be subject to a cancellation fee of \$100.

Signature \_\_\_\_\_

Date \_\_\_\_\_

## **CR 9000/ PC 9000 TRAINING COURSE ITINERARY**

### **Day #1 - (8:00 a.m - 5 p.m.)**

- Hardware Description
  - Interfaces to the CR9000
  - Specific Modules in the CR9000 System
- Software Description
  - Installing PC9000
  - Installing the Operating System in the CR9000
  - PC9000 Overview
- Program Generator
  - Creating Generator Programs
  - Wiring Diagram
  - Real Time Windows
  - Data Collection (all 3 data formats)
  - Use Logger Status
  - Program control via Logger Files
  - Use Cal-On-Site

### **Day #2 - (8:00 a.m. to 5 p.m.)**

- Continue PC9000 Exercises
  - Get/Set variables
  - Use Calculators to derive Multipliers and Offsets
  - Use Calculators to derive MPH, KPH, RPM's Liquid Flow Binary (TOB1 & TOB2 )to Ascii (TOA5) conversions
- CR Basic Overview
  - Create Programs in CR Basic
  - Create Test Programs to determine sufficient Settling Time and Integration Time.

### **Day #3 - (8:00 a.m. - 3 p.m, CSI Tour 3 - 4 p.m.)**

- CRBasic Functions Cont.
- Connect, program, and calibrate (using Cal-On-Site) the various Bridge configuration and pulse sensors.
- Tour of Campbell Scientific's manufacturing, production, and machine shop facilities (optional).
- ViewDaq Real-Time Software Overview
  - Configuring custom ViewDaq viewing screens
  - Optimizing real-time needs with ViewDaq

## TRANSPORTATION

- Car Rental

Several car rental options are available at the SLC Airport. Among them are Alamo, Avis, Budget, National, Hertz, and Dollar. Daily rental costs can vary from \$35 - \$50 (mid-size). Rental car companies are located in the lowest level of the parking terrace.

- Cache Valley Limousine Service (*Airport Shuttle*)

A SLC Airport to Logan round-trip service

Cost: \$70 Round Trip

3679 North Hwy. 91

Hyde Park, UT 84318

(435) 563-6400

Upon arrival at the Salt Lake Airport, check-in with the Cache Valley Limo Driver at the CVL Desk located near baggage claim carousel #4.

Reservations must be made at least 48 hours in advance. To receive a refund, any change or cancellation requires 48 hours advance notice from arrival/departure time.

- Motel to CSI Facility

Logan Cab Company

435-753-3663 (approximately \$5)

Please call 1 - 2 days in advance to make arrangements for a 7:45 AM pickup at your hotel.

## DIRECTIONS: SALT LAKE INTERNATIONAL AIRPORT TO LOGAN

Depart from Salt Lake International Airport and take **Interstate 80 EAST**. Connect with **Interstate 215 NORTH**, and link with **Interstate 15 NORTH**. Travel north on **I-15 NORTH** for approximately 60 miles and take the Brigham City/Logan exit (*Highway 89/91*). Continue east through the traffic light and into the canyon. Drive through the canyon (Highway 89/91) and into Cache Valley. As you enter Logan, the highway becomes Main Street. Continue north on Main Street and turn west (left) at Jack's Tire and Oil (1800 North). Follow 1800 North one mile west to Campbell Scientific, Inc. Enter through the front (east) door of the first building and ask for assistance.

## ACCOMMODATIONS

The motels listed below are located in Logan, approximately four miles from CSI. Rates vary from about \$48 to \$60 per night.

### Weston Inn-Best Western

250 North Main  
Logan, UT 84321  
435-752-5700

### Best Western Baugh Motel

153 South Main  
Logan, UT 84321  
435-752-5220

### Comfort Inn

447 North Main  
Logan, UT 84321  
435-752-9141

### Crystal Inn

853 South Main  
Logan, UT 84321  
435-752-0707

### The Logan House (Bed & Breakfast)

168 North 100 East  
Logan, UT 84321  
435-752-7727

### Alta Manor Suites

45 East 500 North  
Logan, UT 84321  
435-752-0808

### The Logan TravelLodge

2002 S. U.S. Hwy. 89-91  
Logan, UT 84321  
435-787-2060

### The Super 8 Motel

865 S. Main Street  
Logan, UT 84321  
435-753-8883

## **TOURIST INFORMATION**

- For Recreational and Tourist information about Cache Valley contact:

Cache/Rich Tourist Council  
160 North Main  
Logan, UT 84321  
(435) 752-2161

WWW sites:      [www.cachevalley.com](http://www.cachevalley.com)