

Building a New Electric World

Training Schedule

2007



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| Merlin Gerin |
| PDL |
| Square D |
| Telemecanique |

Course Description

All courses include light refreshments, lunch, one Schneider Electric poloshirt, and course materials. Venue details will be sent prior to commencement.

Speed Drives and Soft Starters VVD1 – 2 days

A 2-day course covering the construction and operating characteristics of 3-phase induction motors, variable speed drives and soft starters. Principles of variable voltage, variable frequency, (VVVF) speed control and closed loop flux vector speed/torque control of a 3-phase induction motor.

Presentations and practical 'hands on' exercises on the Telemecanique Altivar 31 and Altivar 71/61 variable speed drives using the supplied workbooks and training units. Basic set-up and commissioning using PowerSuite software and installation and fault-finding procedures for the Altivar variable speed drives.

Drives – Pumping Applications VVD2 – 1 day

This is a hands-on course covering multi pump and lead pump applications. A test rig is used comprising four pumps paralleled across an inlet and outlet manifold, with pressure and flow sensors at the discharge of the outlet manifold.

The objective of this course is to provide attendees with an in-depth knowledge of features and problems associated with a typical pumping application.

Smart DOL Motor Control PCP1 – 1/2 day

Motor control is an integral component of any industrial site. The aim of this course is to familiarise electricians and sales engineers with the principles of motor control. Items covered include:

- contactor selection
- overloads
- AC rating of contactors
- voltages used in contactor control circuits
- safety for operators and users, and
- co-ordination of products.

Power Factor Measurement PFM – 1/2 day

This is a good entry-level training course demonstrating the basic principles of what, how and where power factor correction should be used in a low voltage distribution network. You will also look at the general principles of power factor correction that, when applied correctly, will improve a network's power.

This course is recommended for individuals who work with switchboards and low voltage networks. Electrical contractors, end users, switchboard builders and consultants will all get value from this course.

Zelio LEC1 – 1/2 day

A half-day course introducing you to logic relays aimed at those selling or designing simple control circuits. The course outlines the principles of logic relays, inputs and outputs, function blocks, clocks, timers, coil functions, relay and transistor outputs as well as programming software.

Advanced Zelio Logic LEC2 – 1/2 day

This course covers the more advanced features of Zelio Logic, and covers Modbus communications, Sequential Flow Chart programming, and more advanced maths and function blocks.

Upon completion of this course, you will be able to:

- use the more advanced maths and functions blocks of Zelio Logic,
- set up Modbus communications to Zelio, and
- use the SFC language for sequential-type programming.

The course is for any person who sells components or designs control circuits and wants to use the more advanced features of Zelio.

Machine Safeguarding IMC1 – 1/2 day

With the increasing development of fast, automated manufacturing processes in today's industrial workplaces, even greater accountability is being placed on employers for workers' safety. This course covers basic principles of machine safety from an electrical perspective. It looks at industrial accidents, hazards and dangerous phenomena; details the risk evaluation process and the categories of safety, safety techniques and typical safety circuits. An overview of safety products and their application is also included.

Machine Sensors IMC2 – 1/2 day

This course covers basic principles of machine sensors, and selection of product to suit sensing applications.

Upon completion of this course, you will be able to perform these actions:

- understand technical aspects of sensor design, and
- select appropriate sensors to suit an application.

Individuals who wish to improve their knowledge of machine sensing should attend this course.

LexCom Home Network LHN – 1/2 day

The LexCom Home Network training is a half-day course that will take you through the steps required to design and install a LexCom Home Network for distribution of TV, telephone and data signals around the home. The session will cover details on all the LexCom components as well as a practical session on cable and connector installation. This course will also contain the necessary technical training towards becoming a LexCom Authorised Installer.

Twido AUT1 – 2 days

Twido is the base line of our PLC range, and as such forms the foundation of our range. Knowing how and why Twido works is the first step up the PLC ladder. This course will teach from the very basics of Industrial Automation to some of the more advanced functions that Twido can deliver. Throughout the course you will receive hands-on examples with Twido Soft and Twido PLCs.

Twido Advanced AUT2 – 1 day

For the more advanced user of Twido, we now offer communication, PID control, ASI bus and small HMI as an add-on to the Twido training. This is a 1-day course following on from the 2-day basic course. All attendees must have a working ability with Twido or have attended the basic course.

Unity Pro XL AUT3 – 4 days

Unity Pro is the latest generation PLC programming software from Schneider Electric.

In this 4-day course the student will be introduced to the Modicon Premium & Quantum hardware, and the Unity Pro environment. It serves as an introduction to IEC programming languages (Ladder, Structured Text, Function Block Diagram, Sequential Function Chart & Instruction List) for those who wish to advance beyond traditional ladder logic.

Hands-on programming through the use of practical labs and the built-in simulator reinforce understanding of this powerful software tool. Prerequisite: a good grounding in PLC or PC programming.

Vijeo Designer AUT4 – 2 days

Vijeo Designer is the configuration software for the Magelis XBTG range of touch screen HMI.

You will become familiar with the features offered by the XBTG range and upon completion of this 2-day course you will be able to install the Vijeo Designer software, develop an application and run it on XBT-G.

A number of practical labs are included in the course which, when completed are run on the Vijeo Designer simulator.

A knowledge of PLC programming and addressing is required and knowledge of HMI products an advantage.

Industrial Ethernet AUT5 – 2 days

Ethernet is emerging as the preferred control network for connecting SCADA, HMI, PLC and VSD systems. A 2-day Industrial Ethernet course covers planning and commissioning of Real Time Ethernet Networks and the use of ConneXview diagnostic software for maintenance of these systems. All participants must be computer literate.

CitectSCADA – Basic Configuration

CIT1 – 3 days

Gain insight into CitectSCADA project design and become familiar with configuration techniques. This hands-on course includes practice with plant control, data collection, trending and reporting.

All participants must be computer literate.

CitectSCADA – Networking and Architecture

CIT2 – 2 days

Gain advanced skills including knowledge of the principles behind networking in CitectSCADA, such as how CitectSCADA uses a network, redundancy and distributed servers. Learn more about the Citect Kernel and connecting to CitectSCADA remotely through the Internet Display Client, Web Client and CitectSCADA Pocket.

Course documentation and a copy of the product developed during the course will be supplied.

All participants must be computer literate, and have at least three months CitectSCADA configuration experience.

CitectSCADA – Advanced Configuration

Concepts CIT3 – 3 days

This hands-on course will give you insight into the principles behind customising CitectSCADA. You will be using different programming techniques including Cicode and VBA. In addition, you will learn about the Citect Kernel and exchanging data between CitectSCADA and other applications such as Microsoft Access and Excel.

Course documentation and a copy of the product developed during the course will be supplied.

All participants must be computer literate, and have at least six months CitectSCADA configuration experience.

Citect – Cicode CIT4 – 2 days

Learn about basic programming techniques using the Cicode programming language in this hands-on course. This course is aimed at the user who has had no programming experience. It is also useful for the experienced user who wishes to become familiar with Cicode.

Course documentation and a copy of the project developed during the course will be supplied.

All participants must be computer literate, and have had some CitectSCADA experience.

Citect – Reports CIT5 – 3 days

Upon completing this course you will be able to develop customised plant information portals that aggregate and share information between all types of plant control systems, MES/ERP application databases and users throughout your enterprise. You will be able to develop analysis and data transfer tools using standard Microsoft technologies that are easy to deploy, maintain and learn.

All participants must be computer literate, and have at least six months CitectSCADA configuration experience.

Citect – Upgrade Course CIT6 – 1 day

Receive an update to CitectSCADA project design and configuration techniques, and view the newest product features.

All participants must be computer literate, and have had some Citect SCADA experience.

Easy ways to register

Phone (09) 829 0490, Fax (09) 829 0491 or Email courses@nz.schneider-electric.com
online@www.schneider-electric.co.nz

Terms and Conditions:

Enrolment: Registration together with payment should be made 10 days in advance of the start date of the course. Enrolments will be confirmed in writing 10 working days prior to the course commencement date subject to: (1) receipt of the signed registration form accepting Schneider Electric Terms & Conditions and (2) either payment 10 days prior to the course date or purchase order from Approved Corporate Accounts. Enrolment can be made by forwarding the registration form with payment to Schneider Electric Course Enrolment, PO Box 15355, New Lynn, Auckland.

Pricing: Course fees are payable in advance and cover the cost of tuition, instructional manuals, course materials, the use of equipment and the cost of lunches/refreshments. All course fees are exclusive of GST. Prices are shown in New Zealand dollars and are subject to change without notice.

Course Documentation: Published course descriptions are for general reference only. Course documentation and printed material provided in Schneider Electric training courses is copyrighted and may not be reproduced without prior consent. No audio or visual recording of Schneider Electric training courses, or of Schneider Electric personnel teaching such courses, may be taken or reproduced electronically without prior written consent.

General: Schneider Electric reserves the right to change course schedules, discontinue courses, modify course content, limit class size, and cancel courses.

Refund and Cancellation Policy: Requests for cancellations and transfers must be received in writing and acknowledged by Schneider Electric.

*Full refund of course fees will be given for cancellations received up to 10 working days prior to course commencement. *The full course fee will be charged for cancellations received within 10 working days prior to course commencement. Suitably qualified replacements are welcome, provided they register prior to commencement on the first day of the course.

Privacy Policy

Collection of Personal Information: The Company will collect and maintain personal information only where it is directly related to the commercial operations of its business. This information is limited to names, business addresses and contact details.

Use or Disclosure of Personal Information: Information collected will only be used for the purpose for which it was collected, except where you consent to it being used for another purpose. We will take reasonable steps to protect the personal information we hold from misuse and loss, from unauthorised access, modification or disclosure.

Access to Your Personal Information: You can access the personal information we hold about you and ask for it to be corrected if it is inaccurate. Unless an exception applies, we will allow you access to the information upon request. The Company reserves the right to charge a reasonable fee for providing access to this information.