

# Course Descriptions

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

## Planner PDLP – ½ day

The Planner software package is designed to assist electricians in both planning the electrical layout of a building, and presenting plans to customers in a professional manner. The program produces a Bill of Materials, Colour Coded Plans, Extras List, Picture Report, Quote and Invoice that are all needed for the installation. This half day course covers the registration, set up and full use of the Planner Software Package.

(Note: bring your own laptop to the training to participate)

## StarServe SSV – ½ day

This course will introduce you to the Clipsal StarServe Home Network system. It will cover all aspects of the system from a basic introduction to all of the parts that make up a StarServe system, through to advanced installation and testing of the system. We will also cover the practical aspects of installing and wiring the StarServe system.

## LexCom Home Network LHN1 – ½ day

This course will introduce you to the LexCom Home Network system. It will cover all aspects of the system from a basic introduction to all of the parts that make up a LexCom system, through to advanced installation and testing of the system. We will also cover the practical aspects of installing and wiring the LexCom connectors.

## LexCom Multi-Room Audio - Introduction LHN2 – 1 Day

This course will introduce you to LexCom Multi-Room Audio. It will cover all aspects of the system from the components... e.g. speakers, keypads, single source hubs and input plates. It will also explain the way these components are connected, how to set-up IR addressing, how to add sub zones and expanded zones, home cinema set-up and how to expand to 12 and 18 zone systems.

## LexCom Multi-Room Audio - Advanced LHN3 – 1Day

This course expands on the LexCom Multi-Room Audio Introduction Course and covers all aspects of Multi-Source Audio/Video system and its components including the multi-source audio and video hubs, keypads and learning remote. It also covers all aspects of the Systemnet Hub including the colour touchsreen option, MusicServer and explains how to make use of the configuration software to set up the remotes, keypads, touchscreens and MusicServer.

## Clipsal Datacomms Structured Cabling CLIP1 – 1 day

This course teaches the importance of quality cable cross connect product and installation techniques in providing overall transmission performance. It will also cover use of standards and system design principles for maximum performance and reliability. Specific instruction is given in the correct use of Clipsal product range in cabling infrastructure.

## Clipsal Datacomms UTP Testing Workshop CLIP2 – 1 day

The UTP Testing Workshop is a new innovation in certification programs, independent of tester manufacturers. The course is designed to enhance the knowledge of the industry professional.

## Clipsal Datacomms Fibre Optic Testing Workshop CLIP3 – 1 day

The Clipsal Fibre Optic Testing Workshop is a new innovation in certification programs, independent of tester manufacturers. The course is designed to enhance the knowledge of the industry professional.

## Clipsal C-Bus Basics CLIP4 – 3 days

The C-Bus Basics training course is designed to educate the participant on the following:

- Basic C-Bus Principles
- The types of different C-Bus Hardware
- Programming C-Bus using the C-Bus Toolkit software
- Programming Relays, Dimmers, Key Switches, Sensors, Scenes, Network Bridges and DLTs
- Basic Fault Finding and Diagnostic Skills

Prerequisites: Please contact your local C-Bus Sales Engineer or Schneider Sales Representative

## Clipsal C-Bus Touchscreens CLIP5 – 2 days

The C-Bus Touch Screens training course focuses on programming the Black and White and Colour Touch Screens, and is designed to educate the participant on the following:

- Setting up a project in the PICED software
- Creating and using Themes
- Creating and configuring Menu Structures
- Providing C-Bus & IR Control
- Creating Scenes & Schedules
- Password Protecting Pages (Via Access Control)
- Utilising Colour Objects
- Displaying HTML & Web Cams
- Using Inbuilt Systems I/O's
- Using Templates

Prerequisites: C-Bus Basics

## Clipsal C-Bus Logic CLIP6 – 2 days

The C-Bus Logic training course focuses on how to write Logic Code for Touch Screens, PAC's, HomeGate and Schedule Plus, and is designed to educate the participant on the following:

- How the Logic Engine works
- Logic Terminology
- Using Logic Wizards and Line Insert features
- Using Logic Help Files
- A number of different familiarisation and practical application exercises

Prerequisites: C-Bus Basics & C-Bus Touch Screens

## Clipsal C-Bus Multiroom Audio CLIP7 – 1 day

The Multi Room Audio training course is designed to educate the participant on the following:

- Programming Amplifiers using the C-Bus Toolkit software
- Programming the Matrix Switcher with MARPA software
- Introduction Digital Audio Topologies
- IR Reader and IR Transmitter
- IR Distribution for Multi Room Audio

Prerequisites: C-Bus Basics & C-Bus Touch Screens

## Machine Safeguarding IMC1 – ½ 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 – ½ day

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

## My Ecodial L Design Software DE2 – Duration: ½ day

This course gives you an understanding and the importance of what co-ordination plays in the design of a low voltage distribution network. Today more than ever understanding, monitoring and controlling your low voltage distribution network is essential for industry to ensure energy is constantly available and managed as economically as possible. Production facilities, plants, commercial buildings and offices are often 24hr operations, with continuity of supply paramount. If there is a clear understanding of the low voltage network then proper decisions can be made when and as required. With the new software "My Ecodial L" the user can comprehensively design for new additions and check his existing network parameters.

## Power Factor PFM – ½ 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 learn about active and reactive power and how these values determine the energy you use and ultimately pay for. You will also look at the products, technologies and general principles of power factor correction that when applied correctly will improve a networks power.

## Fundamentals of Variable Speed Drives and Soft Starters VVD1 – 2 days

Covers 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.

Demonstration on potential energy savings with variable speed drives on fan / pump applications using the Eco 8 software.

Detailed presentation on the Altistart 48 soft starter and the principles of SCR phase control. Concept of electronic soft starters using, voltage ramp, current limitation and torque control.

This course is suited for electricians, technicians and maintenance staff.

## Drives – Pumping Applications VVD2 – 1 day

This is a hands on course covering Multi pump, Wet Well and lead pump applications. A test rig and Vijeo Citect SCADA simulation software is used on a pump set comprising of four pumps paralleled across an inlet and outlet manifold, with pressure and flow sensors feed back. Suitable for Consultants, Irrigation Company's and Local Councils mechanical and Electrical staff.

## Zelio LEC – 1 Day

This course introduces you to logic relays. The Smart relay has introduced a new dimension in design of circuits for simple machines and in the building services environment. The possibilities are endless and can be easily achieved by using modules from 10 to 40 I/O. Their ease of setting up provides a competitive alternative to solutions based on cabled logic or specific cards. This course also covers the more advanced features of Zelio Logic, modbus communications, Sequential Flow Chart programming, and more advanced maths and function blocks.

(Note: bring your own laptop to the training to participate)

## Twido PLC 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 the 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. Through out the course you will receive hands on examples with Twido Suite and Twido PLCs.

## Twido Advanced AUT2 – 1 day

For the more advanced user of Twido we now offer, communications, and small HMI as an add on to the Twido training. This is a one 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 Standard PLC Programming AUT3 – 2 days

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

In this 2 day course the student will be introduced to the Modicon M340, 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.

## Unity Pro XL Advanced 1 – Ethernet Networking AUT4 – 1 day

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

This 1-day course is a logical extension to the Unity Standard Course and designed to introduce Unity programmers to Ethernet Communications techniques available in the Unity Pro IEC61131 environment.

In this hands on course, students establish communications from PLC to PLC, and PLC to ATV71 Variable Speed Drives.

## Vijeo Designer AUT5 – 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.

## Medium Voltage Indoor Outdoor Switchgear MV1 – 2 Days

The Medium Voltage Switchgear Training Course covers the operation and maintenance of Schneider Electric's range of Medium Voltage indoor and outdoor Switchgear. This includes Ring Main Units, SF6 and Vacuum switches.

## Medium Voltage Protection Relays MV2 – 2 Days

The purpose of the Medium Voltage Protection Relay Training Course is to give Protection Application Engineers a high level of knowledge on the Separn range of Protection Relays and application Software.

## Citect SCADA Configuration CIT1 – 3 Days

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

## Citect SCADA Networking and Architecture CIT2 – 2 days

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

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

## Citect SCADA Customisation and Design CIT3 – 3 days

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

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

## Citect SCADA Cicode Programming 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.

## Citect Historian CIT5 – 3 days

Upon completing this course you will be able to develop customized 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.

## Citect SCADA Upgrade CIT6 – 1 Day

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

## Citect Facilities CIT7 – 3 Days

Gain insight into Citect Facilities project design and become familiar with configuration techniques.

This interactive course includes practice with facility control, data collection, trending and reporting.

For more information on these courses, please contact Customer Care on 0800 652 999

## 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 by email and/or phone 10 working days prior to the course commencement date. Enrolment can be made by forwarding the registration form with payment to Schneider Electric Course Enrolment, PO Box 15 355, New Lynn, Waitakere 0640.

### Pricing:

Course fees are payable in advance and cover the cost of tuition, instruction manuals, course materials, the use of equipment and the cost of lunches/refreshments. All course fees are exclusive of GST. Prices shown are 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 course, 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. The 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.

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