



# Training by Schneider Electric

## Making you more competitive Training Schedule 2018

At Schneider Electric we know that developing your skills and the skills of your employees can help to keep your business competitive. Investing in skills and training can increase productivity and innovation, help you attract and retain high quality employees and improve customer satisfaction.

More training dates will be added throughout the year to accommodate demand, therefore if a training date is not suitable for you, register your interest and we will advise when new course dates are added.

Other training is available on request. Customised training for your staff is also available both on your site or at one of our offices. Please contact your local representative for more information.

[schneider-electric.co.nz/training](https://schneider-electric.co.nz/training)

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# Course Descriptions

## Unity Pro PLC Programming

Duration 3 days / Course cost \$1200pp

Unity is the Application PLC Programming Software for Schneider Electric's larger process type PLC's such as M340, M580, Quantum and Premium PLC's. This training course serves as an introduction to IEC 61131 Programming Languages (Ladder, Structured Text, Function Block Diagram and Sequential Function Chart.) Hands on programming through the use of practical examples, and a built in simulator reinforce understanding of this powerful software tool. UDP Publish and Subscribe communications between PLC's, Modbus TCP/IP communications between PLC's, and to an ATV630 Variable Speed Drive, will be covered in this training course. The PID Function Block will also be covered.

**Upcoming training dates and locations:** Auckland 8<sup>th</sup> to 10<sup>th</sup> May; Wellington 26<sup>th</sup> to 28<sup>th</sup> June; Christchurch 10<sup>th</sup> to 12<sup>th</sup> July; Napier 14<sup>th</sup> to 16<sup>th</sup> August; Auckland 2<sup>nd</sup> to 4<sup>th</sup> October.

## Unity Ethernet-IP (Industrial Protocol); Unity DMT (Device Type Management)

Duration 1 day / Course cost \$450pp

Ethernet-IP is the open standard from ODVA (Open Device Vendors Association). An M340 NOC Communications module will be configured to connect an ATV630 Variable Speed Drive, to demonstrate Ethernet-IP communications. Device Type Management allows another Device to be connected to the PLC, and accessed through Unity. An ATV630 Variable Speed Drive will be configured by accessing SoMove VSD Configuration Software, through Unity. All Students must have attended both the Unity and VSD Training courses, before taking part in this training.

**Upcoming training dates and locations:** Auckland 7<sup>th</sup> September.

## Variable Speed Drives

Duration 1 day / Course cost \$300pp

This course provides an introduction to Altivar variable speed drives. The basic principles of AC motors and variable speed drives are discussed, with hands-on workshop exercises using Altivar Process and/or Altivar 71 drives. Drives related topics such as energy saving, EMC, harmonics, installation practices may be discussed. Software tools to assist configuration, monitoring, and optimisation of the drive system are demonstrated. Note: It is advised to bring your own laptop with the latest version of SoMove configuration software pre-loaded.

**Upcoming training dates and locations:** Auckland tbc; Christchurch tbc; Hamilton tbc.

## So Machine Basic; Vijeo Designer Configuration for the Magelis

Duration 3 days / Course cost \$1200pp

SoMachine Basic is the Application Programming Software specifically for M221 PLC. M221 is Schneider Electric's entry level PLC, and is programmed in Ladder Logic or Grafcet. (Grafcet is a simplified version of Sequential Function Chart). This course will teach the basics of PLC Ladder Logic, with Timers, Counters, Sequencers and Bit Shifters. Please Note, the SoMachine Basic Programming environment with Ladder Logic and Grafcet, is not a cut down version of the SoMachine IEC 61131 programming environment used with M241 and M251.

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

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

**Upcoming training dates and locations:**

Hamilton 13<sup>th</sup> to 15<sup>th</sup> March; Christchurch 11<sup>th</sup> to 13<sup>th</sup> September; Auckland 20<sup>th</sup> to 22<sup>nd</sup> November.

## So Machine Configuration

Duration 3 days / Course cost \$1200pp

SoMachine is the Application Programming Software for Schneider Electric's small PLC's (but not the M221), and HMI Controllers. It is IEC 61131 compliant, with six programming languages. Function Block Diagram, Sequential Function Chart, Structured Text, Instruction List, Ladder Logic and Continuous Function Chart.

Derived or User Created Function Blocks (DFB's), Derived Data Types or Data User Types (DUT's), On-Line Changes, Watch Windows and Simulation will all be covered in this three day training course.

The Controller will be configured to communicate with an ATV630 Variable Speed Drive using Modbus TCP/IP.

A brief overview of configuring UDP SoMachine Variables for use with Vijeo Designer version 6.2, will be covered also.

**Upcoming training dates and locations:** Christchurch 22<sup>nd</sup> to 24<sup>th</sup> May; Auckland 12<sup>th</sup> to 14<sup>th</sup> June; Wellington 19<sup>th</sup> to 21<sup>st</sup> June; Napier 4<sup>th</sup> to 6<sup>th</sup> December.

## Datacomms: (Copper installation)

Duration 1 day / Course cost \$tbc

This course will cover Actassi Warranty procedure and expectation, there will be a focus on installation quality. It will also cover use of standards for maximum performance and reliability. Specific instruction is given in the correct use of Schneider Electric's product range in cabling infrastructure.

**Upcoming training dates and locations:** Auckland tbc; Wellington tbc; Christchurch tbc.

\*Terms and conditions apply and can be viewed on our website.

Register for an upcoming course:

[schneider-electric.co.nz/training](https://schneider-electric.co.nz/training)

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