

Introduction to PLC's and HMI's

PLC Training Presented By ECON

Who Should Attend ?

- Multi-skilled technicians
- Engineering Supervisors
- Managers
- Engineering personnel with no previous knowledge of PLCs and HMIs

Students will Be able to:

- Understand digital inputs & outputs
- Work with timers
- Understand data types, including analogue / digital
- Work with simple math instructions

Course Tutor

Gerard has worked in the automation industry for two decades and has experience of projects across the sphere of industrial application, including the petrochemical, pharmaceutical, water, food, drinks and sea life industries. Gerard has mastered the operation of all market brand plc's, a key strength as a tutor.



Optional Hardware

- PLC
- HMI
- Cables and software
- Carry / storage case

Included in Course:

- 2GB memory stick including all documents and sample programs.
- Folder containing course materials.
- Assistance with personal projects.

Please email queries and booking requests to :

TRAINING@LISTO-LTD.COM

20% discount on course fee for the First delegate from each company!

Course Fee £450/ €550 Per participant. Hardware (optional) £250/ €300

Course Syllabus

The course syllabus is based on participants learning through real examples. In the last day time is allocated for participants to discuss their potential projects and get assistance in structure and design from the Tutor.

Day 1

- Registration
- PLC History
- Ladder Fundamentals
- Creating a Project
- Module 1 Create , Save & Open a Project File
- Module 2 Start /Stop Functions
- Module 3 Timer Functions
- Module 4 Counter Functions
- Module 5 Analogue Functions

Day 2

- Network Tea & Coffee
- Creating a Project
- Module 6 Set Point Functions
- Module 7 HMIInterface
- Module 8 Run Project on Test Rig
- Module 9 Test & Debug Project
- Assessment
- Individual Project Support



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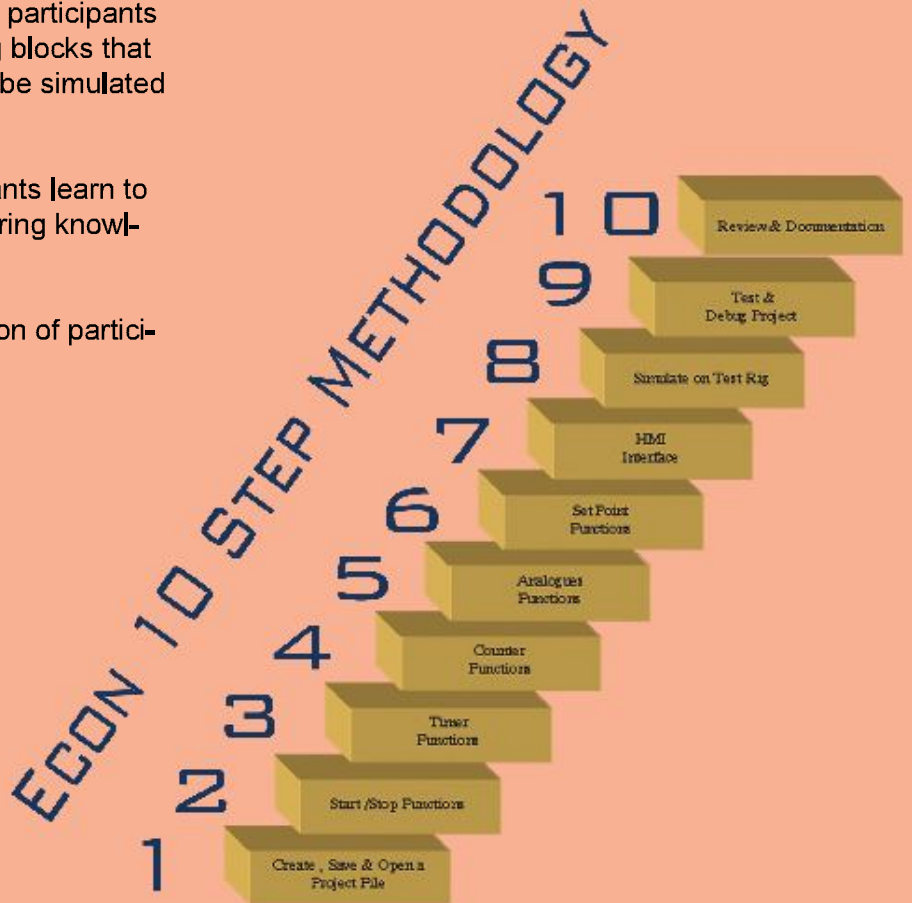


Teaching Philosophy

The ECON training philosophy is to build participants knowledge through step by step building blocks that ultimately result in a live project that can be simulated on a test rig.

Starting with basic functions the participants learn to build the project in bite size chunks ensuring knowledge transfer and retention.

The course assessment ensures validation of participants knowledge and commitment.



Sand Filter Project

As described above the ECON training methodology uses a live project to aid with learning. The sand filter project in the diagram opposite is based on a real industrial project and is typical of the control required in industry today.

After completing the fundamentals participants work with digital inputs and outputs to start / stop the pump and open / close the valve. Timers and counters ensure the run time of the pump is limited. Progressing, the participant introduces digital high and low level control through switches on the tank providing stability.

The final stage of the project is to introduce full analogue instrumentation providing the participant with automatic control based on a programmed tank level set point.

At each concept stage the participant gains the opportunity to view how the concept relates to live equipment utilised in industry today.

Upon completion to the training the participant has a reference file for future projects that includes 80% of the program structure required to undertake most common control applications.

