# Automation Course Level 1

Siemens track

Liquid Consulting

Course flyer

Automation Course Level 1 is the foundation course for engineers and technicians who will work on process-module automation. This track covers Simatic S7 / Step 7 and Beijer HMI.

## WHO SHOULD ATTEND

### Attendees

- Commissioning and field engineers with a basic level of process and automation experience.
- Plant staff: the automation lead, maintenance technicians, and controls engineers.

### Prerequisites

Good computer skills and a basic electrical and technical understanding.

### Duration and languages

Two-day agenda. English, Spanish and Portuguese. Labs use Liquid's mobile PLC and HMI kit.

## MODULES

### Day 1

- Basic automation theory
- Platform components (Siemens)
- Programming-software overview (Simatic S7 / Step 7)
- Communications overview
- Practice examples

### Day 2

- PLC programming instructions
- An overview of the programming conventions used on these process modules
- Online editing of PLC code
- Beijer HMI overview
- Practice examples

## LEARNING OUTCOMES

After the course, attendees should be able to set up communication with the PLC and HMI, get online, upload and download programs, operate the programming software, follow programming instructions, debug interlock and phase conditions when a machine is stuck on a step, and make basic online edits.

### Request training

Use the form on liquidconsulting.com/training/automation-level-1/ or write to automation@liquidconsulting.com.