



Machine Diagnosis Training Expert

If you know the traffic map in London, you are a good candidate for a taxi driver! To do a fast diagnosis via the PLC program you have to know the internal roadmap in the PLC. The AWL PLC structure is object driven, that means software is configured and grouped and is not programmed like spaghetti. Still this program is new for you and you have the responsibility to react fast when the machine is standing still.

Training content

The trainer will use the PLC programme of the machine and show where the inputs (sensors) are used and where the outputs are written. This will be done by starting in the hardware configuration where the I/O is defined. The trainer uses a PLC simulation that is running on his computer and he will generate software problems. The problems will reflect common errors that can happen in the machine. Via the diagnostics tools, like the mailbox viewer, the trainer will show how to find the cause of the problem. A short introduction of the AWL PLC structure will help you understand the PLC programme.

Results

- Awareness of difficult problems and how to solve them
- Understanding how the groups (jigs, robots, etc) are defined in the PLC programme
- Being able to set up the machine to default settings
- When to contact the AWL service department

Preperation

The AWL trainer will send a personal invitation to every participant together with a selection of parts from the machine manual.

The training covers subjects like:

- Which parameters are used in the hardware configuration and why
- In which PLC blocks the jig is programmed
- How messages are set
- Where inputs and outputs are read and written
- Explanation of Service Online diagnosis assistance



Subject:	Machine Diagnosis Training Expert
Target group:	Maintenance (electrical)
Duration:	8 hours
Max. participants:	2
Location:	On customer's premises (preferable) AWL-Techniek
Scope:	The scope of this training is to diagnose problems via a laptop.
Pre knowledge:	For Siemens PLC's the participant must have at least followed the S7 basic training or have experience with Siemens S7. Knowledge about Profibus, Profinet and electrical drawings is also required.
Requirements:	A meeting room with beamer is necessary for the presentation. Each participant will need a laptop with the latest Simatic Manager installed.
Spoken language:	English, German
Language of course material:	English

■ □ □ Beginner

■ ■ □ Advanced

■ ■ ■ Expert



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