

# TIA overview - Seminars

Title: The road to an automated machine

Module 2: Software training for beginners

## Module Description:

Expand your tools of the trade in Module 2, where you will learn how to use structured data processing and implement sustainable source codes. The module will also give you the skills you need to design specific source codes for machines (basic programming) and improve your program structure.

## Contents:

- Software modules and programming languages
- Software structures and building block concepts
- Library compliance and the principle of encapsulation
- Program structure and organization in TIA Portal
- Libraries and version control (PLC + HMI)
- The multi-user server, and joint project work
- WinCC Advanced - Image blocks

## Training Duration:

- 16h

## Trainers

- Frederick Keymer-Eickelkamp

## Required:

- Your own laptop for the session
- TIA V16 with PLCSim already installed
- Module 1: Commissioning

## Recommended:

- Basic awareness of how hardware is used in a machine

## Training Location:

- Essentially wherever you prefer
- Travel expenses included
- The training can also be online-based

## Number of participants:

- Max. 4 people

## Prices:

- On request