

## Курс TIA-MICRO2 (Расширенный курс по контроллерам S7-1200) / TIA-MICRO2 – Expanded course on Simatic S7-1200 controllers (TIA-MICRO2)

### Краткое описание

The Totally Integrated Automation Portal (TIA Portal) forms the work environment for integrated engineering with SIMATIC STEP 7 Basic and SIMATIC WinCC Basic. The second part of the SIMATIC S7-1200 training is based on the knowledge of the TIA Portal gained in the SIMATIC S7-1200 basic course, including SIMATIC STEP 7 Basic and HMI. You will expand your knowledge of programming in SCL, connecting drives, use of the TIA Portal diagnostic tools for clearing hardware faults and software errors, and PROFINET IO. You will also learn about the technology functions of the PID controller and drive functions that are offered by the SIMATIC S7-1200. You will thus be able to adapt your plant to new demands. After attending the course, you can do the following: Set up SIMATIC S7-1200 PROFINET IO networks Understand the interaction of TIA components Perform specific commissioning of TIA components Use the PID controller technology functions and drive functions of the SIMATIC S7-1200 Systematically diagnose and correct hardware and software errors in the SIMATIC S7-1200 automation system with the diagnostic tools of the TIA Portal engineering portal Create simple programs in the programming languages LAD, FBD, and SCL

### Целевая группа

Programmers

### Содержание

- Hardware diagnostic functions of the TIA Portal in the SIMATIC S7-1200 automation system
- Software diagnostic functions of the TIA Portal in the SIMATIC S7-1200 automation system
- Possible applications of various block types (FC, FB, OB, DB)
- Presentation of the SCL programming language
- Commissioning of distributed I/O on PROFINET IO
- Commissioning of a WinCC project
- PID controller technology functions and drive functions
- Deeper understanding of contents through practical exercises on SIMATIC S7-1200 system model

### Требования к участнику

SIMATIC S7-1200 knowledge corresponding to TIA-MICRO1

### Тип

Индивидуальный курс

### Длительность

4 дни

### Язык

ru