

Курс TIA-SAFETY / TIA-SAFETY – Commissioning, service and creation of systems of industrial safety on the basis of SIMATIC S7-300F/S7-400F controllers (TIA-SAFETY)

Краткое описание

The Totally Integrated Automation Portal (TIA Portal) forms the work environment for integrated engineering with SIMATIC STEP 7 and SIMATIC WinCC. In this course, you will learn about configuring, programming, starting up, diagnosing and troubleshooting of the failsafe CPUs of the SIMATIC S7 Safety PLC (no H systems) and the failsafe, distributed ET200 systems. After attending the course, you can do the following: starting up failsafe CPUs of the SIMATIC PLC programming of safety-related programs in the languages F-FBD and F-LAD diagnosing and troubleshooting of safety-related programs.

Целевая группа

Programmers
Service personnel

Содержание

- Overview and guidelines
- AS S7 Safety (principle, system configuration and I/O)
- Configuring of the failsafe I/O with STEP 7 Safety Advanced
- Programming of a safety-related user program
- Failsafe communication PROFIsafe (CPU-CPU communication, master-slave communication)
- Diagnostics facilities (CPU diagnostics, I/O diagnostics, advanced diagnostics)
- Exercises for I/O configuration, communication, troubleshooting
- Programming examples (emergency stop, protective door, safety-related shutdown, passivation, special programming features)
- Deeper understanding of contents through practical exercises on the system SIMATIC S7-1500F

Требования к участнику

Basic knowledge of SIMATIC S7 according to the courses TIA-SERV2 or TIA-PRO2

Замечка

In this course you will work with the SIMATIC STEP 7 software based on TIA Portal.

Тип

Индивидуальный курс

Длительность

4 дни

Язык

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