

## PROFINET with Industrial Ethernet in the TIA Portal / PROFINET/工业以太网系统课程（基于TIA 博途）（A7831）

### Objectives

Siemens offers you the opportunity to learn about the future-oriented PROFINET, the open Industrial Ethernet standard for automation. Using SIMATIC NET components, you will learn how to parameterize, commission and troubleshoot a PROFINET network quickly and effectively.

### Target Group

Programmers, Commissioning engineers, Engineering personnel, Maintenance personnel, Service personnel, Operators

### Content

- Basics of Industrial Ethernet
- Basics of PROFINET IO, RT&IRT
- PROFINET IO with configuring and programming
- Commissioning the media redundancy
- Plant-wide engineering & diagnostics in the TIA Portal
- Introduction to the integrated Web-services in the PROFINET devices
- Utilizing and configuring Shared Device
- Parameterizing and applications of I-Device
- Links (PN/PN coupler)
- Data communication Controller / Controller with:
  - an S7 connection to the S7 communication blocks, PUT/GET, BSEND/BRECEIVE
  - Ethernet connections (ISO on TCP, TCP, UDP) to the T-communication blocks, T-SEND/T-RECEIVE
- Extensive practical examples with exercises

### Prerequisites

Complete A7811 or A7816 course

### Type

Face-to-face training

### Duration

5 days

### Language

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