

## COURSE CONTENT "2 DAYS"

### Industrial Ethernet with SIMATIC S7

#### Prerequisites

- Basic knowledge of Windows PC
- SIMATIC S7 Advanced Training Course

#### Contents

- Hierarchy levels in automation technology
- Basics on Ethernet bus access processes and package format
- Ethernet network components
- Comparison of Ethernet/Fast Ethernet
- Cabling and terminal connection system
- Rules for network design
- Duplex/Switching/Autonegotiation/Autosensing/Spanning Tree Algorithm
- Industrial Ethernet
- Terminal connection method SUB-D/RJ45 Twisted Pair (TP)/Industrial Twisted Pair (ITP)
- Internet protocol TCP/IP
- Client/Server architecture
- Firewall systems
- Ethernet interface for STEP 7 / remote programming through Industrial Ethernet
- Configuring the Ethernet interface for SIMATIC S7 with NCM S7
- Commissioning SEND/RECEIVE interface
- Configuring a TCP connection
- Programming SEND/RECEIVE blocks
- Diagnostics and troubleshooting with NCM S7 Industrial Ethernet
- Configuration of a communication processor with integrated Web server
- Access to process data using a standard Web browser
- Establishing a possible infrastructure for Internet connection of the PLC

This program serves as the lead and guideline for the course, with us placing great value on the practical applications.

We will naturally be pleased to deal with any individual suggestions, wishes and questions from the participants.