

Seminar: Ethernet II Troubleshooting

2-day seminar: Troubleshooting in Industrial Ethernet



Contents and goals:

The training is for employees in the field of design, project planning and maintenance, who want to work with industrial Ethernet and TCP/IP. In case of an error you will be able to locate effects fast and solve them in short time.

With the help of an exercise network with working S7 and S5 communications you will get to know the common protocols used in automation: TCP/IP, ISO (H1), S7, S5, RFC1006 etc.

Furthermore you will get insight of the mode of operation of wide spread network services like SNMP, FTP, DHCP etc.

Error scenarios of Ethernet communication with S7 and S5 PLCs and network errors in general are in the focus of the troubleshooting workshop. You will learn the following:

- How do I proceed clever with fault analysis?
- Which tools are available for me?
- How do I use a network analyser efficiently?

Topic overview:

► Function of protocols & services

- Ethernet
- TCP/IP, ISO on TCP (RFC1006), Modbus on TCP
- ISO (H1)
- FTP, HTTP, DNS, DHCP, SNMP

► Functioning of the INAT NetSpector

- Overview of functions
- Interpretation of statistics
- Filter possibilities
- Automatical recording
- Application of triggers

► Troubleshooting

- Fault analysis in Send / Receive Direct communication between S7 and S5 PLCs
- Fault analysis in Fetch / Write communication between client and S7 or OPC
- Fault analysis in connection to higher ranked services
- Typical as well as rare error scenarios are run through

INAT GmbH
Ostendstr. 50 A
90482 Nuremberg

Phone +49 911 544 27-0
Fax +49 911 544 27 27
Email: info@inat.de

www.inat.de



Special characteristics:

► Performances

- 2-day seminar with theory and practice part
- Seminar documents
- Seminar documents and network tools on CD
- Certificate of participation
- Lunch and coffee breaks
- Training language: English or German

► Requirements

- Seminar: Ethernet I – Basics or similar
- Basic PC knowledge

Learn in small groups:

In our seminars you are not just one number among many others. In order to provide an ideal learning atmosphere, the seminars are limited to a number of 8 participants. This guarantees a comprehensive, personal support, so that no question remains unanswered.



You'll say it, too:

„Yes, I am 100% fit when it comes to Industrial Ethernet“

Further seminars at INAT

► INDUSTRIAL ETHERNET

- Ethernet I: Basics
- Real-Time-Ethernet in automation

► PROFIBUS

- PROFIBUS – Technology
- PROFIBUS – Troubleshooting

► PROFINET

- PROFINET – Technology
- PROFINET – Certified Engineer

► MODERN COMMUNICATION

- OPC Plug'n' Play in automation
- OPC-User-Training
- OPC-Manufacturer-Training
- OPC Unified Architecture
- Wireless LANs in automation

► AROUND PLC

- Modernization of S5 PLCs

In-house training:

If you would like to have a training at your company, feel free to ask. We will create a customized offer for you.

**Current dates
on
www.inat.de**

Order data:

Ethernet II: Troubleshooting in Industrial Ethernet

2-day seminar,

Nuremberg / Person

Order No.: 100-2290-02