PROFIsafe Training
Registration

Hereby I apply for the three days PROFIsafe training class from

- ☐ October 18-20, 2010 in Karlsruhe/Germany
- ☐ I need help with accommodations

The attendance fee is 500 €.
Soft drinks and lunch are free of charge.
Maximum number of participants is 40.

Name

Company

Street

City

ZIP/PLZ

E-Mail

Fon

Fax

Place, Date:

Signature:

Please fax to:
PROFIBUS Nutzerorganisation e.V. (PNO)
Fax +49 721 96 58 589

PROFIBUS Nutzerorganisation e.V. (PNO)
Member of PROFIBUS & PROFINET International (PI)
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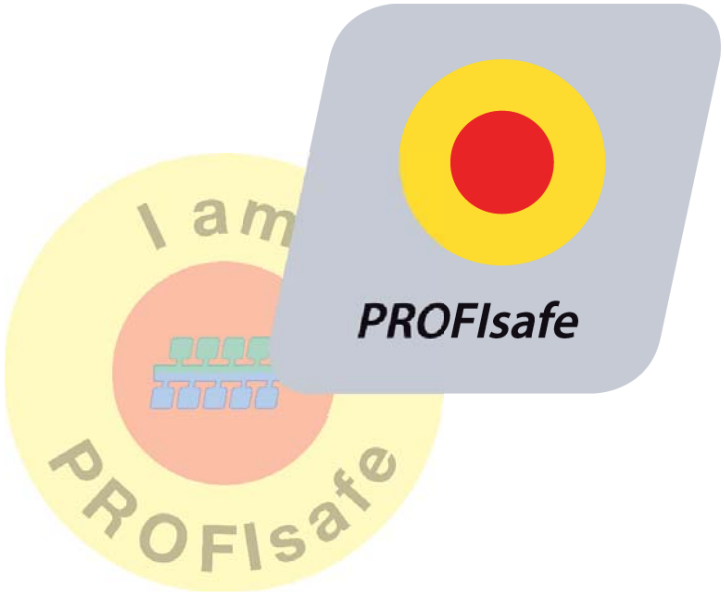
Email: germany@profibus.com
www.profibus.com and www.profisafe.net

PROFIBUS
Nutzerorganisation e.V.

PROFIsafe certified Designer

3 days training class



October 18-20, 2010
PNO, Room H120
Haid-und-Neu-Strasse 7
Karlsruhe/Germany

PROFIsafe Training
Status of PROFIsafe

Several years ago, the decentralized factory and process automation using PROFIBUS and PROFINET had to live with the unsatisfactory situation that for safety applications a second layer of conventional wired technologies or proprietary safety busses had to be used. With the advent of PROFIsafe, a holistic and open solution is available for all kinds of PROFIBUS und PROFINET applications needing additional safety features.

PROFIsafe specifies how safety-related field devices are communicating with safety controllers across PROFIBUS or PROFINET in such a manner that they can be deployed in safety-related automation tasks up to Category 4 (EN 954), SIL3 (IEC 61508), or PL „e" (ISO 13849). PROFIsafe realizes this safety communication without changing the underlying transmission channels („Black Channel") as a profile, i.e. via supplementary processing data formats and a plain and powerful protocol.

The specification has been jointly developed by renowned manufacturers, users, standardization and safety bodies (e.g. TÜV, BGIA). It is based on relevant safety standards, mainly the IEC 61508, which covers software and communication issues for safety.

In the meantime PROFIsafe has proven itself to be an enabling technology for new safety functions in field devices and as a facilitator for new safety applications. Besides cost savings through easier wiring, PROFIsafe supports higher production flexibility and goes for more availability. Via the new „Life Cycle" concept more risk areas can be covered with the result of increased safety.

Numerous certified PROFIsafe products are available. PROFIsafe took over the worldwide market lead with about 1.000.000 PROFIsafe nodes and 100.000 systems.

PROFIsafe Training
Objectives of the training class

This huge dissemination of PROFIsafe technology increases the need for correspondingly knowledged persons. One of the general safety principles is the systematic training and education of those persons. Thus, PI is offering training in conjunction with TÜV-Süd. The objectives are:

- Deep insight in all the aspects of the design and usage of PROFIsafe
- Learning about the PROFIsafe-Starterkit and its tools
- Overview of the development process according IEC 61508

The training requires three days. A 90 minutes written test will take place at the end of each day.

Training Confirmation

No. FSTR-TÜV/PNO-20080625_01

Mr./Mrs.
Name
Address

successfully attended the
PROFIsafe Competence Center Training

PROFIsafe Certified Designer

from June 25th to June 27th , 2008
in Karlsruhe (Germany)

The training had been arranged by
PROFIBUS Nutzerorganisation e.V. and TÜV SÜD Rail GmbH

W.Velten-Philipp
Trainer

Dr. Wolfgang Stripf
Trainer

G.Greil
Certifier
Date: 2008-07-xx

Scope and purpose of training

The purpose of the training is to provide the attendees with basic safety strategies and safety aspects of IEC 61508, IEC 62061 and ISO 13849-1 in addition to detailed information about the PROFIsafe technology and development kits.

The attendees shall be aware of the special safety environment they are involved in, and the tasks and responsibilities they are normally restricted to.

Content of the training

1st Day (PROFIsafe for PROFIBUS / PROFINET)

2nd Day (PROFIsafe Starterkit, hands-on)

3rd Day (Safety according IEC 61508)

The benefits for the participants:

- To get the most actual information about PROFIsafe
- To understand modern safety aspects
- To become a „PROFIsafe certified designer"
- To get a TÜV certificate
- To become a member of the worldwide PROFIsafe knowledge network
- To increase the person's market value

PROFIsafe Training
Program

Program:

Day 1
- PROFIsafe Policy
- PROFIsafe specifications
- PROFIsafe technology (including iPar-Server, wireless, security, etc.)
- PROFIsafe environmental aspects
- Safety applications

Day 2
- Overview of IEC 61508
- Functional Safety Management
- Life Cycle and assessments
- Safety Functions and architectures
- Measures to avoid faults and failures
- Safe Failure Fraction and FMEDA
- Validation and Verification

Day 3
- Content of the PROFIsafe Starterkit
- Driver software
- Architectures
- Example development
- How to develop a GSD
- Test and certification

Target groups:
- Design engineers of PROFIBUS/PROFINET devices
- HW and SW development engineers
- Test engineers and safety assessors

Time:

Start:	09:00 am
End of day:	06:00 pm