

## Registration

Hereby I apply for the one day PROFIsafe refresher seminar on

October 10, 2012 in Karlsruhe/Germany.

The attendance fee is 200 €.  
Soft drinks and lunch are free of charge.

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

or register online at:



PROFIBUS Nutzerorganisation e. V. (PNO)  
Member of PROFIBUS & PROFINET International (PI)  
Haid-und-Neu-Str. 7 • 76131 Karlsruhe/Germany  
Fon +49 721 96 58 590 • Fax +49 721 96 58 589  
E-Mail [germany@profibus.com](mailto:germany@profibus.com)  
[www.profibus.com](http://www.profibus.com) • [www.profinet.com](http://www.profinet.com)



**1 day follow-up seminar  
for  
PROFIsafe certified Designers**



**PROFIsafe refresher  
seminar**

**October 10, 2012  
PNO, Room G 31  
Haid-und-Neu-Str. 7  
Karlsruhe/Germany**

## 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, IFA). 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 already available. PROFIsafe took over the worldwide market lead with more than 1.150.000 PROFIsafe nodes.

## Objectives of the seminar

This huge dissemination of PROFIsafe technology increases the need for correspondingly knowledgeable 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 to build up a network of well-educated „PROFIsafe certified designers“.



### 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

One of the new safety principles in IEC 61508 is the life cycle model for safety functions and „compliant items“ such as PROFIsafe devices. IEC 61508 requires for persons engaged in such technologies permanent update of the relevant information. According to the PROFIsafe policy it is required for „PROFIsafe certified designers“ to get an update within 3 years after an official training class (TÜV/PNO certificate).

### The benefits for the participants:

- To get the most actual information about PROFIsafe, new releases of safety standards and related issues.
- To keep the validity of the „PROFIsafe certified designer“ TÜV-certificate.
- To learn from other experienced „PROFIsafe certified designers“ during the discussions.
- To fulfil legal requirements and to prevent from prosecution in case of accidents.

## Program

### Program:

- PROFIsafe news
  - New specification version 2.5
  - Recent probability considerations
  - GSD Editor and F-Parameter
  - iPar-Server
  - New PROFIsafe policy
  - Change requests for Test & Certification
  - Change requests for Environment
  - Market overview
  - Marketing activities (e.g. China)
- IEC 61784-3 and related standards
  - Edition 2
  - IEC/TR 62685 (former GS-ET-26)
  - News from IEC 62280 (railways)
  - EMC for functional safety (IEC 61000-x)
- IEC 61508 and ISO 13849
  - What's new in Edition 2 of IEC 61508?
  - Consequences for PROFIsafe devices
  - What's new in ISO 13849?
  - IEC 62061 and ISO 13849

### Target group:

- „PROFIsafe certified designers“ needing an update within 3 years after the training class according to the PROFIsafe policy
- HW and SW development engineers
- Persons involved in product management and support of PROFIsafe technology

### Time:

Start: 09:00 am  
End of day: 05:00 pm