

## IEC 61511 – Practical use (ST-WSPUP)

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### 培训目的

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Basic knowledge about the "Safety life cycle according to IEC 61511"  
Expert knowledge regarding planning of safety-related systems  
Jointly produced solutions to common tasks  
Verified solutions  
Provided solutions as samples for everyday work

### 培训对象

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Planners of safety-related systems in the process industry (hardware & software)

### 课程内容

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This workshop is focussed on the practical use of the IEC61511, whereas the workshop "IEC 61511 Functional safety for the Process Industry" is more theoretically covering the subject.  
Using the example of typical application such as distillation column, Grignard reactor or steam drum the safety lifecycle with it steps:

- Basics from IEC 61511, functional safety management
  - Hazard and risk analysis
  - Allocation of safety functions to protection layers (SIL) incl. practical exercise (group works)
  - Specification of safety requirements
  - Design and engineering of a SIS
  - Implementation of hardware examples – practical exercise (group works)
  - SIL Verification of examples implemented
  - Verification, validation and functional assessment
- will be elaborated and the results provided as key examples for the daily work.

### 必备条件

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Good knowledge of process measuring and control technology  
Basic knowledge "IEC 61511 Functional safety for the process industry"  
Experience in the process industry  
Knowledge as provided in the Workshop "IEC 61511 Functional safety for the process industry"

### 注意事项

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### 课程类型

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标准课程

### 培训天数

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2 天

### 培训语言

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