

Certificate

No.: FS TR- RA/KA 170619

Mr.
Paolo Baccara
Tecnica Elettronica S.p.a

has taken part in the training event and passed successfully the exam

Functional Safety for Process Industry

Process Automation - IEC 61511

on 19. June - 20. June 2017 in Karlsruhe

Organizer: TÜV SÜD Rail GmbH



Wolfgang Henke - Training Manager

20. June 2017

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Workshop Content WSFS17E01

Introduction	In various process applications, more and more components and systems have to fulfil safety related tasks. Safe functioning of control and instrumentation is often essential for the safety of operating personnel and the environment. Therefore it is essential to know the international standards for Functional Safety and how to apply these correctly and intelligently
Pre-conditions	<ul style="list-style-type: none"> • Knowledge of process measuring and control technology • Experience in the process industry
Target group	<ul style="list-style-type: none"> • Responsible people of solution partner, system integrators, EPC, operating companies etc. in the process industry • Project managers and planners of safety-related systems in the process industry (hardware & software) • Candidates for SFSP (Siemens Functional Safety Professional)
Approach	The workshop offers an insight into the standards that relate to functional safety and describes, by use of examples, the architectural possibilities for solutions to safety relevant tasks. All aspects which need to be considered for the design of a hardware and software system in order to meet the requirements for functional safety to a given safety integrity level will be discussed in this workshop. Furthermore references to practical applications are shown and reviewed.
Contents	<ul style="list-style-type: none"> • Introduction to Functional Safety • Accident cause and product liability • Overview IEC 61508 / IEC 61511 • Functional safety management • Safety lifecycle <ul style="list-style-type: none"> - Risk analysis - Allocation of safety functions to protection layers - Safety requirement specifications - Design and engineering of safety instrumented functions - Installation and commissioning - Operation and maintenance - Modification (MOC) & Decommissioning
General	Duration 2 days, Speaker Mr. Velten-Philipp TÜV SÜD, Host PD PA S AE PTM
Remark	There is an exam option at the end of the workshop (duration approx. two hours)

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