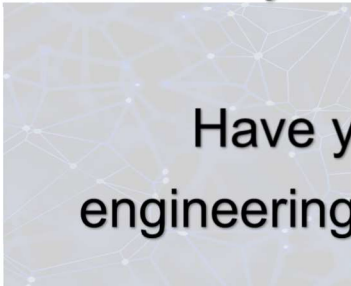


DE0305 Functional Safety for Systems Incorporating AI



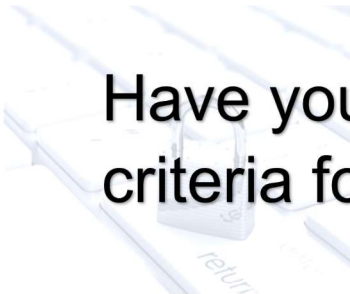
Have you ever asked yourself how to develop a system incorporating machine learning approaches **AND** complying with functional safety standards efficiently?



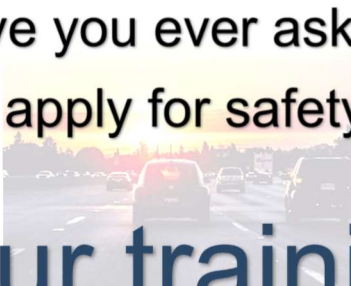
Have you ever wondered why data engineering is crucial for safe systems?





Have you ever thought about acceptance criteria for your artificial intelligence?



Have you ever asked yourself which standards to apply for safety-related Machine Learning?



Join our training and learn more about **Functional Safety for Systems incorporating AI**



Agenda and Content

AI Basics and Key Safety Techniques

- ◆ Basics
 - Introduction to Functional Safety
 - Introduction to AI and Machine Learning
- ◆ Standards related to AI
 - Key aspects
 - Requirements for claiming Compliance to Safety Standards
- ◆ Machine Learning Concepts and Algorithms
 - Overview of Machine Learning Algorithms
 - Learning Processes
 - Segmentation and Classification
 - Specialities of Neural Networks and Deep Learning
 - Performance Metrics
- ◆ Key Techniques to handle Functional Safety and AI
 - Machine Learning Development Lifecycle
 - Data Engineering Techniques
 - Architectural Design Aspects
 - Explainability and Interpretable Decisions
 - Mathematical Modelling Approaches
 - Derivation and Definition of Acceptance Criteria
 - Safety Analyses
 - Failure Modes and Safety Mechanisms

Hands-On Workshop

- ◆ Introduction to Development and Test Tools
- ◆ Guided and interactive workshop on selected examples incorporating the safety basics presented during the training

Who should attend?

- ◆ Machine Learning Engineers
- ◆ Data Scientists and Engineers
- ◆ Algorithm Developers

- Prerequisites:**
- Basic Programming Skills
 - Pre-Installed Development Environment
(will be coordinated by our trainers upfront)
 - Basic knowledge of Functional Safety is beneficial but not required

Duration:	2 days	50 % focus on AI Basics and Key Safety Techniques 50 % hands-on Workshop
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Language: Can be chosen between German or English, training material will be in English

Location:	<i>exida.com</i> GmbH Prof.-Messerschmitt-Str. 1 D-85579 Neubiberg / Germany	on-site	online
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Certificate: Each participant gets a letter of attendance.

For more information, please contact:

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