



FS 192 | Functional Safety Engineer  
(TÜV Süd) Cenelec

# TrainingFacts



## Functional Safety Engineer in Railway Industries according to TÜV Süd

According the standards EN 50126 / EN 50128 / EN 50129 / EN 50159 the participant will learn about the processes necessary in the safety life cycle. The training course adopts a situation-based approach to the role of supporting processes and the resulting deliverables. Explanations of the necessary work products and appropriate treatment of safety plans are an integral part of the training

This 3,5-day workshop will highlight the requirements of the different standards and will give advice for a standard-conform realization of Functional Safety. Participants will learn how to understand Functional Safety Management and Lifecycle principles as well as how to communicate and use them.

### Certificate

The successful completion of the final exam will provide you with a "FS Engineer CENELEC (TÜV Süd)" certificate.

**Duration:** 3,5 days, beginning Tuesday, 09:00 ending Friday, 13:00

**Number of participants:** minimum 4, maximum 10

**Registration:** <https://www.hima.com/en/products-services/seminars/>

**Contact:** training@hima.com

## Content

### Introduction

- Standards in Railway Applications

### Risk Analysis

- Risk definition
- Risk reduction
- Safety levels

### RAMS

- Specification and demonstration of Reliability, Availability, Maintainability and Safety (RAMS)

### Life cycle

- Life cycle
- Role definitions

### Software Design

- Communications, signaling and processing systems
- Software for railway control and protection systems

### Communication

- Communication, signaling and processing systems
- Safety-related communication in transmission systems

### Documentation