Training Overview

Role Training Validation Management

Expert knowledge for validators according to CENELEC

Engineering und Software-Entwicklung
Part of DB E.C.O. Group

Why this Training Course?

Validation is the decisive step towards approval: it provides objective proof that a system fulfils its purpose and complies with all safety requirements. As systems in the railway sector become more and more complex, the requirements for the independency of and methodology by validators are also increasing. This training course provides in-depth knowledge of the roles, tasks and documentation obligations according to EN 50126, EN 50716 and EN 50129 in order to bring approval processes to a safe conclusion.

Benefits for You

After this **2-day training**, you will be able to:

- **To fill the Validation Role:** Understanding the necessary independence and responsibility in the V-model.
- **Structured Validation Planning:** Creation of strategies and plans that meet the normative requirements.
- **Testing and Evaluation:** Professional execution of document checks, test monitoring and validation in change management.
- **Preparation of the Validation Report:** Preparation of the final validation results as the basis for the safety case.
- **Safely Manage Interfaces:** Efficient cooperation with testers, verifiers, safety managers and assessors.

Request an appointment to begin the expert training now!

Overview of the Basic Content

- **Introduction and Basics of Validation:** Normative Framework, Core Terms and Delimitation for Verification, Independence as per to SIL
- **System and Software Validation:** Operational activities, interfaces to other roles, error management, software validation
- **Requirements and Documentation:** Architecture review, methodology, traceability, the validation plan (objectives, activities, strategies...), collect and evaluate objective evidence
- **The Validation Report:** Structure & Contents, Conditions & Requirements, Final Evaluation
- **The Safety LifeCycle:** From the definition of safety requirements to validation and acceptance.
- **Practical Exercises**

Key Data & Organization

Duration: 2 days intensive workshop (in-person or hybrid possible)
Language: German or English
Methodology: Theory teaching combined with practical exercises
Prerequisites: Basic understanding of CENELEC (e.g. through ESE training "Introduction to CENELEC")
Target group: All roles involved in safety-related developments and projects.
Trainer: Dr. Hansjörg Manz, Expert in railway safety & validation management