

# Personal Certification • ISO 26262

Functional Safety Certified Engineer • Coordinator • Consultant • Manager

New technologies and the increasing number of functions within motor vehicles mean that automotive manufacturers have to develop and produce more and more safety-relevant systems. This not only leads to an increase in the number of electronic components - the components and systems themselves are more complex and requirements as to their safety are becoming more stringent. Safety standard ISO 26262 stipulates that organizations must ensure that persons entrusted with tasks related to functional safety have a sufficient level of competence and also that they are suitably qualified. Since the publication of ISO 26262, therefore, employers have been urgently seeking trained and qualified personnel who can demonstrate their competence and professionalism.

## Personal Certification:

As an accredited service provider, we offer you the opportunity to gain the necessary basic and specialist knowledge of ISO 26262 - completely up to date and in compact form. You get to know all the aspects which are fundamental in order to be able to apply the standard correctly. Theoretical standard contents are presented only to the extent as they are essential for carrying out practical tasks. The relation to practice, along with the concrete explanation of methods and approaches, are paramount.

With training certificates issued by TÜV NORD - which are both highly-respected and officially traceable - you as an individual can show that you possess special skills and knowledge that are not covered by traditional studies of engineering.



# Qualification and competence - two essentials for Functional Safety

## Program

We have developed a 3-stage program for you. You can achieve Stage 1 (FSCAE), by attending a dedicated four-day workshop which concludes with a written examination. In order to achieve Stage 2 (FSCAC), you must submit a form to us demonstrating that you have at least 2 years practical experience as FSCAE. A decision is made regarding FSCAC approval based on an evaluation scheme developed by TÜV NORD Systems. The third stage is FSCAM, which follows two years of practical experience as FSCAC.

## FSCAE - emphases production phase

With your personal FSCAE certificate, you demonstrate that you know and understand the basic principles, concepts and objectives of functional safety management with emphasis on the production phase. You are able to create ISO 26262 work products. Your work products may input for the V&V process. You know all related Requirements and you are fit for reviewing all work products, with focus on production. After the training you will be able to find the well suited safety measures, e.g. for configuration for production.

## FSCAC- emphases production phase

With your personal FSCAC certificate, you demonstrate your ability on confirmation measures with emphases on the production phase. This includes to plan, to execute and to finish audits on the production process or assessments on all safety activities especially on production phase based ISO 26262. Your main task is to verify the capability of safety-related parts of the production process, means of production and Software tools in production. Further you learn to implement the field monitoring process to apply proven in use argumentation in your safety-case.

You are able to make use of communication and questioning techniques in order to achieve the objective of the audit or assessment.

## FSCAM- emphases production phase

With your personal FSCAM certificate, you show competence for your leadership of the functional safety management.

This means for safety culture you assess the qualification of staff in your organization.

Further you take over the role of process owner for the functional safety process, the production phase included. You

are able to plan all safety activities and work products for safety projects over the whole life-cycle with the production phase included. You may manage for the production phase the maintenance plan, the field monitoring process for the proven in use evidence and safety-related information made available to the user, like repair or decommissioning instructions. You ensure in all life-cycle phases the implementation of the safety-process, the safety activities specified by the safety-plan and safety-related processes, e.g. production related processes. You take responsibility in the role as safety-manager to the release of Work Products at certain milestones, e.g. release of the technical safety concept or the release for production of the item.

Within your organization, you are the owner of the safety case and you provide its related safety proofs. You report to the top level management assessment results, although if corrective actions become necessary.

## Prerequisites - FSCAM

In order to receive a certificate for Stage 3, as FSCAM, you must have worked for two years as FSCAC with experience in the area of ISO 26262. In order to finally establish your suitability, TÜV NORD Systems performs a qualification audit in your organization. The auditor makes recommendations in the Audit Report and TÜV NORD Systems makes the final decision regarding approval as FSCAM. If all is found to be satisfactory, the certification body confirms your specialist skills and knowledge with issue of the FSCAM certificate. At all three stages you are entitled to display a TÜV NORD Mark on your business card, with a corresponding ID Number.

## Validity of certification

FSCAE and FSCAC certifications are valid for three years, renewable for a further three years through attendance at a one-day update workshop, followed by a successful written test. In the case of the FSCAM, a re-audit takes place every three years. This 3-year rhythm encourages certificate holders to undertake continuous professional development.

## Our Functional Safety Team

Our team consists of experienced professionals with university degrees in engineering. They have many years of experience in the area of functional safety, which enables them to offer optimum theoretical and practical coaching. The personal certification is extremely well thought out, and the material is communicated in an easily understandable and interesting way.

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