MQC in Action

ISO 250XX for Software Product Quality - 1 day

Date/Time	Location	Language
Upon request		English/German

Quality monitoring is a major challenge. This training class provides all relevant basics for the consistent and continuous assessment of product quality of embedded systems. Firstly, their quality depends on the application of suitable processes and secondly, on the implementation of specific quality assurance measures. Using the MES Quality Commander (MQC), participants will learn how to quantify the success of individual measures and how the results of these measurements continuously influence product quality. We will explain the concepts of ISO 250XX and demonstrate how to use continuous quality evaluation through specific modelbased software development processes and toolchain examples with the help of MQC. We will establish key aspects pertaining to core development standards such as ISO 26262 and show how continuous quality monitoring helps to implement these standards.

Target Audience

This training class is targeted at quality managers and engineers, process managers, as well as developers, testing engineers, project, and team leaders who focus on the quality assurance of embedded software. Share your experiences and discuss with other tool users.

Highlights

- Basic concepts of software product quality in compliance with ISO 250XX
- Applying quality models for transparent and sustainable quality assessments
- Use cases for quality tracking
- Relevant aspects of ISO 26262 compliance

Languages

Available in English and German

Formats

Icon On-Site Training

Open-enrollment Trainings
at one of our locations

Icon Online Training

Virtual Classroom Trainings
wherever you are

Icon In House Training
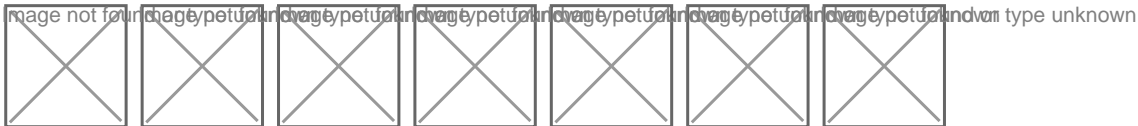
In-house Trainings
online or in-house

More Details on Formats and Locations

Cost, Terms & Conditions

See all fees, terms & conditions for training classes provided by tudoor academy

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Our Trainers

Agenda

Day 1

Overview: Introduction to software quality concepts

- Challenges of building systems for product quality monitoring
- Objectives and structure of the ISO 250XX group of product quality standards
- Basic concepts: measures and quality properties
- Introduction to relevant quality aspects

Basic elements of continuous quality assurance

- Dimensions of quality monitoring
- Handling the heterogeneity of artifacts
- Quality calculation
- Aggregation of quality by a quality model

Hands-on: Basic elements of continuous quality assurance

- Types of quality measurements functions
- Aggregation of quality functions

Quality assurance in model-based development of embedded software

- The standard process for model-based development
- Typical quality assurance procedures in model-based development
- Base practices for software development

Hands-on: Quality assurance in model-based development of embedded software

Constructing quality monitoring systems

- Structure of quality models
- Project structure and typical use cases

Hands-on: Constructing quality monitoring systems

- Constructing quality models
- Defining project structures

Milestones and targets

- Milestones in quality monitoring
- Targets for measures and quality
- Quality calculation for defined targets

Hands-on: Targets

- Definition of targets and milestones
- Evaluation of project quality using targets

Project-specific reporting

- Selection of specific measures or quality properties for reporting

Hands-on: Reporting

- Configuration of report pages
- Targets in reporting
- Tool pages

Continuous quality monitoring to achieve standard compliance

- Using quality monitoring for the controlled creation of a safety case in compliance with ISO 26262
- Verification of functional safety