ISO 26262 in Automotive Software Development

ISO 26262 has been used in Europe for a number of years for functional safety software development. In the U.S., companies are ramping up to prepare for developing software in compliance with ISO 26262.

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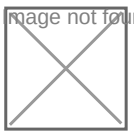
Product development at the software level

Experts in ISO 26262

The staff at MES have extensive expertise in the processes and tools needed to help companies increase their compliance to ISO 26262, Part 6 for Software Development. Check out our software tools, training, and consulting/testing services:

Tools for ISO 26262-compliance



MES Model Examiner® (MXAM)

- Supports ISO 26262, Part 6:
  Application of Modelling Guidelines
  Requirements for Software Architectural Design
  Requirements for Software unit Design and Implementation
- Comprehensive library of over 650 built-in checks
- Certified by TÜV SÜD for ISO 26262

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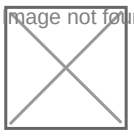
TUEV seal



MES Test Manager® (MTest)

- Help ensure that your requirements are well formed with an interactive GUI
- Automatic generation of assertions to determine if safety requirements are met
- Trace requirements to test cases, to test results, to assertions
- Interactive GUI to create requirements-based tests
- Support testing for ISO 26262, Part 6, Tables 10 through 14

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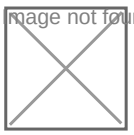
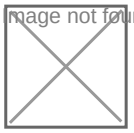
MES Test Manager® (MTest): Automated evaluation of test results



MES Model & Refactor® (MoRe)

- Supports ISO 26262-compliant modeling style
- Automatically applies recommended design styles

MES Model & Refactor® (MoRe): Create or remove cross-hierarchy signals



MES Quality Commander® (MQC)

- Manager's dashboard to track the project's quality over time in support of the ISO 26262 promoted Safety Culture

MES Quality Commander® (MQC):

Trainings

- Model-based Development of Embedded Software in Compliance with ISO 26262: Challenges and Effective Solutions
- Introduction to Model-based Development and Quality Assurance of Embedded Software
- ISO 26262 Tool Classification and Qualification
- Functional Safety for Automotive Professionals

Consulting

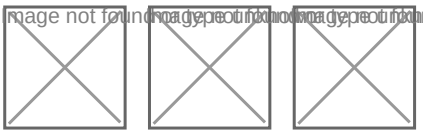
ISO 26262 Deployment Process Options:

- Gap analysis and recommended actions for process, methods, and tools
- Creation of a process manual
- Creation of developer manuals
  - Includes reviewing/creating Simulink modeling style guides
- Assistance in implementing the ISO 26262-compliant process
- Development support
  - Converting models to be compliant to ISO 26262 supporting modeling style guide
  - Creating requirements-based test cases

Testing Services

Our Test Center can convert your requirements into test cases and assessments, create a regression/back-to-back test environment, and coaching.

Testing in compliance with the highest quality standards



References

MES Model Examiner® (MXAM) - Functional Safety Solution: Enhanced Safety and Efficiency for the Software Design Process at Mercedes-Benz

MES Test Center: Achieving 100% Quality Faster with the MES Test Center

ISO 26262 Personnel

Our Trainers

Here you will find an overview of our trainers for all training classes.