Tutorial

Automotive ISO26262 Essentials – Key Challenges, Key Requirements, Key Solutions - Examples from automotive business

ISO 26262 is a comparable new and mandatory functional safety standard within automotive industry and rapidly gains wide application.

Vehicle manufacturers (OEMs) have specific emphasis and strategies regarding implementation and responsibility share with their suppliers while Assessors, Auditors, and Consultants have their interpretation and experiences with implementation approaches. None of the OEMs and suppliers would adopt ISO 26262 literally – although it would be correct, it is not useful due to implementation alternatives and restrictions. None of the OMEs and suppliers can and will adopt ISO 26262 literally and to 100%.

Confronted with this situation suppliers and tool vendors frequently ask themselves what are the essentials of ISO 26262 which fit their development capability and serve the specific demands and requirements of their vehicle manufacturers in a worldwide automotive business.

This tutorial summarizes years of experiences and lessons learned in adopting ISO 26262 in projects from Europe, Korea, US, and Japan. It emphasis key challenges, key requirements, and key recommendations for all parts of ISO 26262 and discusses examples from the automotive business to illustrate the key topics.

Key words: ISO 26262, functional safety, ASIL, safety case, assessment, audit, lessons learned

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