Understanding Automotive SPICE® including integration with ISO 26262 and IATF 16949

Course Duration: 3 Days - 8 Hours/day

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Seminar Content

This three-day course is designed to give the attendee a detailed understanding of Automotive SPICE®.

The Automotive SPICE® Process Assessment Model is used to perform conformant assessments of the software process capability in the development of automotive systems in accordance with the requirements of ISO/IEC 33002.

The results of assessment are used for the identification of process improvements, and for identifying risks in the quality of a specific product release as well as a criterion for supplier selection.

Upon completion of this course you will be able to apply the evaluation methods used in Automotive SPICE® to assess and improve your company's processes. Methods to integrate Automotive SPICE® with both ISO 26262 (Functional Safety) and IATF 16949 (Automotive Quality Management Systems) will be covered in class.

Learning Objectives

> Detailed understanding of what Automotive SPICE® is and the motivation behind the model

> Detailed understanding of process capability level 1 (HIS-Scope)

> Detailed understanding of traceability requirements

> Understanding of how to evaluate process risks and drive process improvements

> Understanding of how Automotive SPICE® integrates with other standards (ISO 26262 and IATF 16949)

Seminar Outline

Day One

> Introduction and Overview

> What is Automotive SPICE®?

> Process Overview and HIS-Scope

> Process Structure

> **Breakout Exercise – Project Management (MAN 3)**

> Capability Dimension and Comparison of Levels 1, 2 and 3

> Understanding Requirements (SYS 2, SW 1)

> **Breakout Exercise – Requirements**

Day Two

> Architecture, Design and Implementation (SYS 3, SW 2, SW 3)

> **Breakout Exercise – Testing (SW 4, SW 5, SW 6, SYS 4, SYS 5)**

> Automotive SPICE® Traceability Requirements

> Supporting Processes (SUP 8, SUP 9, SUP 10)

> **Breakout Exercise – Quality Assurance (SUP 1)**

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Day Three

- **Breakout Exercise – Scenario Evaluation**
- Integration of Automotive SPICE® with ISO 26262
- Integration of Automotive SPICE® with IATF 16949
- **Breakout Exercise – Scenario Evaluation**
- **Automotive SPICE® Final Exam**

Who Should Attend

The seminar has been developed for developers, test engineers, project managers and other participants involved with "Development Projects" in the automotive industry.

Software managers, Automotive SPICE® Implementers, internal auditors and others need to understand Automotive SPICE® and how to integrate it into their Quality Management or Functional Safety system will find the training helpful.

Seminar Materials

Each participant will receive a seminar manual including case studies.

Pre-Requisite

Background in "development projects", "software development", "quality management systems", or "functional safety" will be helpful.

A basic understanding of project management, quality management and system and software engineering processes is helpful, but not required.

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