



DNV GL Business Assurance

ISO 26262 Automotive SPICE

About DNV GL

DNV GL is one of the leading management system certifying bodies in the world having issued more than 70,000 certificates across a very broad spectrum of the manufacturing and service industries.

WHY PARTNER WITH DNV GL

Driven by our purpose of safeguarding life, property and the environment, DNV-GL enables organizations to advance the safety and sustainability of their business. DNV-GL is a leading provider of classification, certification, verification and training services. With our origins stretching back to 1864, our reach today is global. Operating in more than 100 countries, our 16,000 professionals are dedicated to helping our customers make the world safer, smarter and greener.

As a world-leading certification body, DNV-GL helps businesses assure the performance of their organizations, products, people, facilities and supply chains through certification, verification, assessment, and training services. Partnering with our customers, we build sustainable business performance and create stakeholder trust.

FAQ related to 'A-SPICE & ISO 26262'

1. What is Automotive SPICE and why do we need to implement it?

Automotive SPICE is a process model developed by Automotive SIG (Special Interest group) for performing and assessing software development in automotive domain. Implementation of ASPICE leads to better processes and better product quality. It also helps to improve the cooperation among complex supply chains and between globally distributed development and engineering centers. All major OEMs have specified requirements and scope of implementation of ASPICE for their suppliers.

2. What is the scope of ISO 26262? What is its relevance to Automotive and Software development industries?

ISO 26262 addresses the needs for an automotive-specific international standard that focuses on safety critical components. ISO 26262 is a derivative of IEC 61508, the generic functional safety standard for electrical and electronic (E/E) systems. ISO 26262 is intended to be applied to safety-related systems that include one or more electrical and/or electronic (E/E) systems and that are installed in series production passenger cars with a maximum gross vehicle mass up to 3,500 kg. ISO 26262 addresses possible hazards caused by malfunctioning behavior of E/E safety-related systems, including interaction of these systems.

3. I have heard about CMMI, what is Automotive SPICE and do they have any similarity?

Yes. Technically, there are a lot of similarities between CMMI and ASPICE - from process point of view as well as Level (Capability and Maturity) point of view. DNV GL provides in-depth understanding of the similarities and differences between CMMI and ASPICE and transition from CMMI to ASPICE & ISO 26262.

4. If my company is a manufacturer of automotive components, would this seminar be of interest to me?

Yes. If your organization is involved in development of E/E systems complete or partial, ASPICE and/or ISO 26262 can be applied accordingly. We would cover these aspects in this seminar.

5. If I am working in a software development company, would this course ASPICE/ISO 26262 open new avenues/opportunities for my company?

Yes. An organization implementing ASPICE and ISO 26262 certainly will have an edge over its competitors when evaluated by any OEM worldwide. As Automotive SPICE is developed by Automotive SIG consisting of all major OEMs e.g. BMW, VW, Daimler etc. they have specified requirements and scope of implementation of ASPICE. Also, ISO 26262 is being requested by OEMs from their suppliers.

6. Once I attend this seminar, would more intensive courses be available to enhance my skills in these areas?

Yes. DNV GL would be announcing many courses in this seminar for personal enhancement of ISO 26262 and ASPICE. These include courses for engineering, management, auditor and assessor domains.

7. I am a consultant and have experience in Software Engineering Processes. Would attending this workshop help me broaden by sphere of activity?

Yes. In this seminar we would let you know how ASPICE & ISO 26262 can be implemented in various organizations which can be utilized in hand-holding approach.

8. I am software professional. Can I attend this in my individual capacity to learn about applications of processes quality principles in embedded software in automotive industry?

Yes. We would talk at a high level about the process model (ASPICE) and ISO 26262 processes (clauses) which would help to enhance your understanding about processes required in Automotive Industry and develop quality product. In the seminar there would be high level discussion, we would be covering details in respective courses.

Automotive SPICE

- Process Assessment Model (PAM) based on ISO 15504 (SPICE) for Automotive Industry.
- Mainly used by OEMs to evaluate their suppliers as well as by organizations for their Capability Evaluation.
- Widely accepted and used by Automotive Industry by OEMs and Suppliers worldwide.
- Extremely popular in Germany, Japan and now gaining popularity in US, China, Korea and India.
- Processes are closely related with ISO 26262 clauses & CMMI process areas.

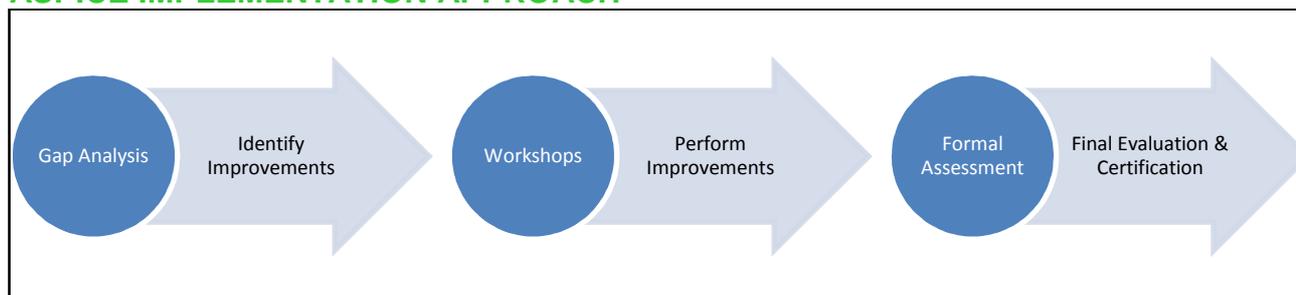
ASPICE TRAININGS

- ASPICE INTRODUCTION - Covers Overview on ASPICE.
- ASPICE PROCESS & CAPABILITY – Provides details of ASPICE processes and Capability Levels.
- iNTACS ISO 15504 PROVISIONAL ASSESSOR Course (for ASPICE) – A five day course on how to perform assessments (Internal & External) utilizing ASPICE. This is iNTACS accredited - VDA/QMC certified course.

ASPICE ASSESSMENTS

CAPABILITY ASSESSMENT	MATURITY ASSESSMENT
<ul style="list-style-type: none"> ▪ Rating for Individual process or set of processes. ▪ Used by organizations for self or supplier evaluation. 	<ul style="list-style-type: none"> ▪ Rating of set of processes at Organizational Level ▪ Used by organizations for self-evaluation and declaration.

ASPICE IMPLEMENTATION APPROACH



ISO 26262

- Automotive Functional Safety Standard derived from generic safety standard ISO 61508.
- Utilized by automotive industry for developing safe E/E automotive systems.
- Since its publication as an International Standard in 2011, gaining popularity worldwide.
- Addresses all areas including Organizational, Management, System, Hardware, Software etc.

ISO 26262 Trainings

- ISO 26262 Basic Course - Provides an Overview of all parts of ISO 26262.
- ISO 26262 Manager - Designed for managers focusing towards implementation of ISO 26262.
- ISO 26262 Auditor - Provides details of how to perform ISO 26262 Audits.

ISO 26262 CERTIFICATIONS by DNV GL

PROCESS CERTIFICATION <ul style="list-style-type: none">Assessing and providing ISO 26262 compliant process certification to an organization	PRODUCT CERTIFICATION <ul style="list-style-type: none">Assessing and providing ISO 26262 compliant product certification to an organization	TOOL CERTIFICATION <ul style="list-style-type: none">Evaluating Tool and providing ISO 26262 certification as per Part-8; Clause 11	PERSONAL SPECIFICATION <ul style="list-style-type: none">Certification to Individuals based on DNV GL Training program Scheme for ISO 26262
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Integrated Services

Transition from CMMI to ASPICE & ISO 26262

- DNV GL facilitates easy and effective migration from CMMI to ASPICE & ISO 26262.
- The services include providing integrated trainings, workshops and assessment services.

Transition from ASPICE to ISO 26262

- DNV GL facilitates easy and effective migration from ASPICE to ISO 26262.
- The services include providing integrated training, workshops and assessment services.

Integrated Approach (ISO 9001, ISO/TS 16949, CMMI, ASPICE & ISO 26262)

- It is important to understand the overall similarities and differences in above standards and models to avoid duplication of work.
- Our team at DNV GL is having extensive experience in all above models & standards and can support effective integrated approach as desired by the organization.

COURSE REGISTRATION:

Please email us at Training2@dnvgl.com or log on to <http://www.dnvba.com/IN/training>

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