

ASPICE

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Introduction

- Automotive Software Process Improvement and Capability Determination.
- It applies to automotive suppliers and manufacturers who want to prove their software development process capabilities to meet OEM requirements
- Developed using the ISO/IEC 15504 standard.

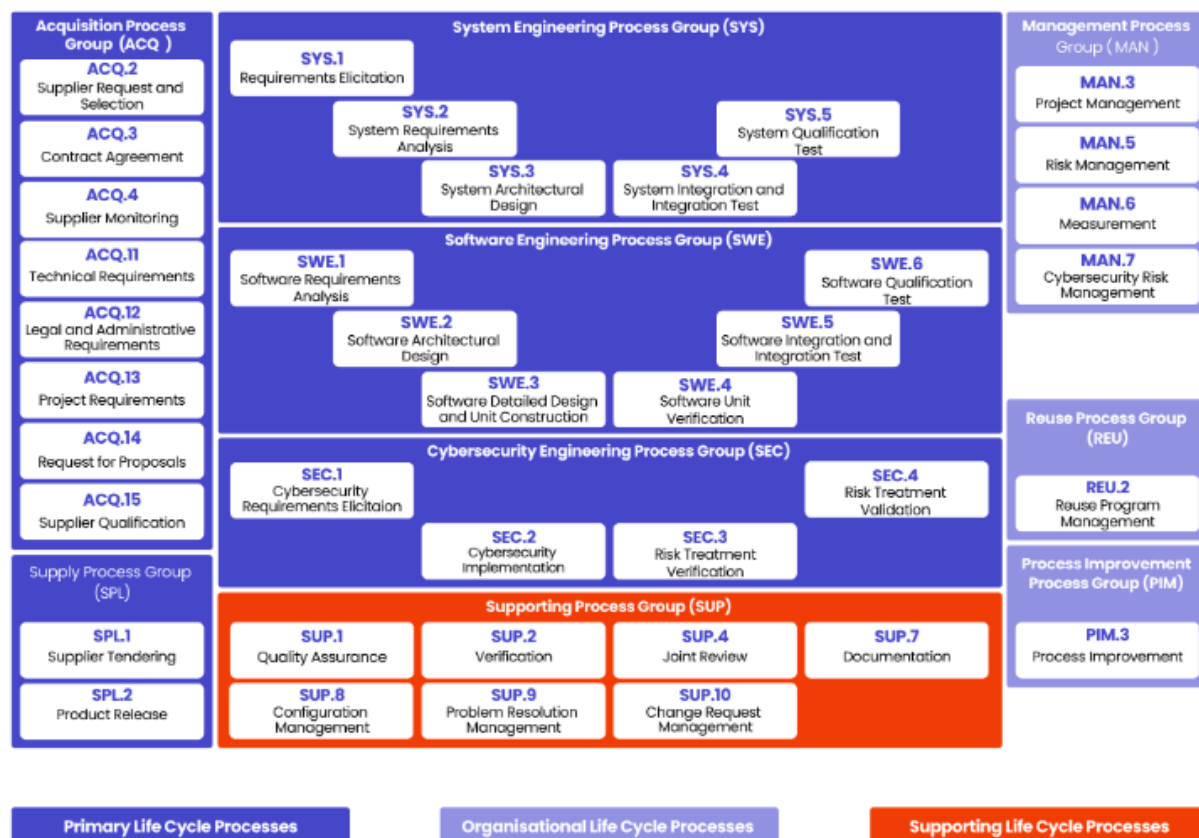
Why ASPICE is important for OEMs and Automotive Suppliers

- Automotive Suppliers and OEMs can continuously monitor and improve how they work.
- For OEMs, following ASPICE means that they can assess their supplier's process quality capability and make more informed decisions when choosing suppliers for their needs.
- For suppliers, adopting ASPICE provides assurance that they can meet customer requirements while improving process quality.
- The goal of the ASPICE standard is to help organizations define and incorporate best practices for vehicle software development at the design, review, development, testing, and verification stages.

The ASPICE Framework and Static Analysis

ASPICE is divided into process groups, including the Software Engineering Process Group (SWE), which is based on the V-model. The SWEs are further divided into the phases of the development lifecycle:

- SWE.1 - Software Requirements Analysis
- SWE.2 - Software Architectural Design
- SWE.3 - Software Detailed Design and Unit Construction
- SWE.4 - Software Unit Verification
- SWE.5 - Software Integration and Integration Test
- SWE.6 - Software Qualification Test



ASPICE Standard Scoring Levels

The PAs consist of a 5-level scoring scale which determines the maturity level of the project:

- **Level 0 - Basic/Incomplete.** Somewhat meet ASPICE requirements.
- **Level 1 - Performed.** Almost or entirely achieve ASPICE requirements, but may have components missing in the process.
- **Level 2 - Managed.** Deliver the work products reliably and almost or entirely achieve ASPICE standards in addition to the work products.
- **Level 3 - Established.** Establish and set the performance standards for the organization and continuously monitor them for improvements.
- **Level 4 - Predictable.** Beyond having established performance standards, analyze outcomes and produce predictable results.
- **Level 5 - Innovating.** Process is consistent, predictable, and continuously improved.

Generally, to meet client requirements, levels 2 and 3 are considered excellent, and levels 4 and 5 are aspirational.