

### ISO 26262 Standard for Automotive Functional Safety

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# What is the ISO 26262 Standard for Safety in Component and Vehicle Development?

**ISO 26262** is an **international standard for functional safety** in the <u>automotive industry</u>. It provides a framework for ensuring the **safety of electrical and electronic systems in road vehicles** throughout their lifecycle, from conceptual design through decommissioning. ISO 26262 aims to prevent and mitigate risks associated with potential failures in automotive systems.

At <u>Applus+ Laboratories</u>, we conduct thorough assessments to ensure your organisation's processes for automotive functional safety comply with ISO 26262 requirements. We issue a **Certificate of Conformity (CoC)** that validates your commitment to the **highest safety standards** in automotive system development and maintenance.

### Why Is ISO 26262 Important?

Compliance with ISO 26262 is critical for the following reasons:

- **Safety Assurance:** Ensures that automotive systems are designed, implemented, and maintained to prevent failures that could lead to hazardous situations.
- **Regulatory Compliance:** Helps meet regulatory and market requirements for functional safety in road vehicles.
- Market Confidence: Enhances trust in your products and processes, positioning your brand as a leader in automotive safety.



• **Industry best practices and harmonisation:** Provides a globally recognised framework for functional safety in the automotive industry. Promoting consistency and harmonisation of safety practices across different regions and markets.

## What are the key components of the ISO 26262 for Automotive Functional Safety?

Here are the key components of the ISO 26262 certification:

- **Framework:** Establishes protocols for maintaining the safety of electrical and electronic systems in road vehicles throughout their lifespan.
- **Risk Management:** Focuses on identifying, preventing, and minimising risks associated with potential system failures.
- **Safety Requirements:** Utilises Automotive Safety Integrity Levels (ASILs) to define critical safety requirements needed to achieve an acceptable level of risk.

### Automotive Safety Integrity Level (ASIL)

**Automotive Safety Integrity Levels (ASILs)** are part of the ISO 26262 which are used to classify the different inherent risks in automotive systems and mitigate them. ASILs follow four different levels, from A-D each representing different degrees risk ASIL D being the highest risk).

# What are the Benefits of Being Certified Under the ISO 26262 Standard?

The benefits of getting the ISO 26262 certification are:

- Verification of Compliance: Our certificate validates that your processes and products are aligned with ISO 26262 requirements. For the different ASIL categories.
- Formal Evidence of Compliance: Provides tangible proof of adherence to global standards, strengthening your market position and ensuring the trust of regulators and customers.
- **Risk Mitigation:** Will be easier for your company to proactively identify and mitigate risks associated with potential failures in electronic systems. This reduces the likelihood of safety-critical incidents and recalls, protecting both consumers and manufacturers from costly liabilities.

### Certification Process for ISO 26262 Standard



Applus+ Laboratories follows the guidelines for auditing cybersecurity engineering according to ISO 19011 Guidance for auditing management systems.

#### The ISO 26262 Audit, Step by Step

The audit for ISO 26262 follows the following steps:

- **Documentary review:** Applus+ Laboratories' audit team will verify that the client's procedures, processes and rules are aligned with the requirements of the ISO 24089 standard.
- Interview and implementation verification: Applus+ Laboratories will verify that the defined procedures are implemented and that the client's assigned roles follow the procedures.

#### What Do You Get at the End of the ISO 26262 Audit?

Upon successful certification, you will receive a Certificate of Conformity (CoC) from Applus+ Laboratories. This certificate serves as **formal evidence of your organisation's adherence to ISO 26262 standards**, providing a competitive edge and reinforcing your commitment to functional safety in automotive systems.

#### Why Choose Applus+ Laboratories for ISO 26262 Certification?

Whether you are an OEM, a supplier, or a partner in the automotive industry, ISO 26262 certification prepares your organisation for **future regulatory requirements** and market demands. It demonstrates your commitment to the **highest standards of functional safety**, positioning your products favourably in the market.

For more information on how ISO 26262 Certificates of Conformity can **elevate your company's standing** in the field of automotive functional safety and provide a competitive advantage, contact Applus+ Laboratories. Our expert team is ready to assist you in achieving compliance and certification.