

Ferrocene Certification

Certify your safety-critical Rust applications with confidence

Ferrocene Certification helps to automate and streamline your Rust certification process. It provides the tools, expertise, documentation and workflows needed to meet safety-critical industry standards, such as ISO 26262, IEC 61508 and IEC 62304.

Why choose Ferrocene Certification?

Our tailored qualification services can help you unlock Rust's potential while meeting specific certification needs. Key benefits include:

- ◆ **Seamless integration:** Works hand-in-hand with our Ferrocene Supply Chain and SDK products, providing a true end-to-end solution for safe, qualified Rust development.
- ◆ **Proven processes for accelerated deployment:** Automates and streamlines key qualification steps, reducing time to market.
- ◆ **Industry expertise:** Leverages in-house Rust expertise and TÜV SÜD partnership to fulfill unique certification requirements.
- ◆ **Expert support:** Provides hands-on assistance with certification templates, gap analysis and testing.
- ◆ **Scalable solutions:** Supports projects of all sizes and complexities, with options for additional architectures and platforms.
- ◆ **Rust qualification materials:** Offers comprehensive documentation and tools to guide your certification team through every stage.
- ◆ **Flexible options:** Tailored qualification to meet your industry's standards.

Adopt Rust with confidence

Ferrocene combines Rust's safety and performance advantages with the qualification evidence and engineering support needed for regulated software development.

Accelerate Certification

Support certification efforts with a qualified Rust toolchain for:

- ISO 26262 ASIL D
- IEC 61508 SIL 3 (with support for customer certification toward SIL 4)
- IEC 62304 Class C
- Certified subset of the Rust core library (ASIL B / SIL 2)

Reduce Supply Chain Risk

Build with confidence with:

- Quality-managed open source distribution
- MIT OR Apache-2.0 licensing
- Predictable quarterly releases
- Upstream Rust alignment
- Qualification documentation

Deploy Across Multiple Platforms

Supported environments:

- Linux
- QNX
- Bare metal
- Intel 64-bit
- Arm 32-bit and 64-bit

See all supported targets [here](#)

Our winning qualification process:

Assessment: Define project requirements and targets collaboratively.

Planning: Develop a strategy based on proven workflows and TÜV SÜD guidelines.

Documentation: Access detailed materials, priced per compiler version, project and architecture, with multi-architecture discounts available.

Testing: Verify compatibility with your stack and address gaps with expert support.

Submission: Submit your compliant package with confidence!

Ferrocene is already qualified to the highest levels of multiple industry standards, with the flexibility to support additional qualifications upon request.

- ◆ Automotive (ISO 26262, ASIL D)
- ◆ Industrial (IEC 61508, SIL 3)
- ◆ Medical (IEC 62304, Class C)
- ◆ Avionics ready (DO-178C, DAL C)

A certified Rust core subset is also included (IEC 61508 SIL 2 and ISO 26262 ASIL B), which is expandable and ready for other safety standards upon request.

Pricing depends on the scope and size of the certification project.

Reach out to our sales team for a consultation: sales@ferrocene.dev.