ferrous systems

Ferrocene Certification for Rust:

Certify your safety-critical Rust applications with confidence

Ferrocene Certification for Rust 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 for Rust?

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.

Ferrous Systems is the company leading in all things Rust:

Maintains open source projects

- Rust project contributors
- rust-analyzer
- bindgen
- sudo-rs

The builders of Ferrocene

The qualified Rust toolchain (ISO 26262, IEC 61508, IEC 62304) targets Linux, QNX and your choice of RTOS upon request. We also support bare-metal on Armv8-A and Armv7E-M.

Development support for Rust adoption

Custom development of libraries, tools and board support packages to help your teams adopt Rust.

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 at sales@ferrous-systems.com for a consultation.