# Rail Services

## Railway Safety Certification – ISA / ASBO

Safety is inherent to railway systems and must be considered throughout their whole life cycle, from their conception to their dismantling, through their technological development, commercial exploitation and maintenance. Railway safety does not depend on a single factor, all the elements that make up the railway system contribute, directly or indirectly, to reach a certain level of safety.

The technology used, both the lines and the trains themselves, the training and formation of human resources, the material means, the management systems, compliance with procedures and regulations are factors to be considered throughout the entire safety process.

The European Railways Safety Directive and Regulation 402/2013, modified by implementing Regulation 1136/2015, establish the Common Safety Method for Risk Assessment to be applied to maintain and guarantee safety of railways systems. Likewise, the CENELEC safety standards establish the safety process to be applied in the new development or modification of railway subsystems.

The authorization and commercial commissioning of the railway subsystems and components requires the application of the safety management process, both for new developments and for modifications. Independent Safety Assessments represent a critical part of this process. These evaluations shall be carried out by Evaluation Bodies that comply with the requirements of the ISO/IEC 17020 standard (Inspection Bodies), formally accredited by the Accreditation Entities.

The assessment entities to certify according to CENELEC safety standards are called ISA and those that certify according to Regulation 402/2013, ASBO.

### OUR SOLUTION

SGS is accredited according to UNE-EN ISO/IEC 17020 requirements for conformity assessment bodies, following the Directive 2016/798/EU on railway safety. SGS is recognized and authorized by the Railways Safety Authorities to perform safety evaluation and assessment for railways products, processes, services and installations:

- Energy
- Rolling Stock
- Control-Command and Signalling Systems
- Maintenance
- Infrastructure
- Safe integration

SGS, as accredited independent safety Assessment Body (AsBo) for the full scope, performs risk evaluation and assessment on railway application projects according to common safety methods (CSM):

#### REGULATION (EU) NO 402/2013

The Common Safety method for Risk Evaluation and Assessment

SGS, as accredited entity, performs independent safety assessment (ISA) of railway application projects according to CENELEC standards:

#### EN 50126-1. RAILWAY APPLICATIONS.

The specification and demonstration of reliability, availability, maintainability and safety (RAMS).

#### EN 50126-2. RAILWAY APPLICATIONS

The Specification and Demonstration of Reliability, Availability, Maintainability and Safety (RAMS) – Part 2: Systems Approach to Safety

#### EN 50128. RAILWAY APPLICATIONS.

Communications, signalling and processing systems, Software for railway control and protection systems.

#### EN 50129. RAILWAY APPLICATIONS

Communication, signalling and processing systems – Safety related electronic systems for signalling

#### EN 50657: RAILWAY APPLICATIONS

Rolling stock applications - Software on Board Rolling Stock

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**WHEN YOU NEED TO BE SURE**

**SGS**

# We are the world's leading testing, inspection and certification company

SGS has a network of more than 2.650 offices and laboratories worldwide, with more than 98.000 employees. SGS offers you a complete portfolio of railways services:

**SGS RAILWAY SERVICES**

- Railways Technical Certification – NOBO / DEBO Conformity assessment body
- Railways Safety Certification – ISA / ASBO Independent safety assessment body
- RAMS Safety Management
- Testing & Inspection
- Welding Services – EN 15085 Certification
- Manufacturing - Supply Chain Quality Services
- Cybersecurity

**CONTACT US**

If you wish to know more about our services or how to get started, please do not hesitate to get in touch.

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