



# Introduction to the Independent Safety Assessment (ISA) for railway applications

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 Seminar

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 1 Lessons

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Seminar Number: IDN-M7-GDP

Status: 16.09.2024. All current information can be found at <https://academy-id.tuv.com/s/IDN-M7-GDP>

The Independent Safety Assessment (ISA) is a process for evaluating the safety of railway applications, including their subsystems, throughout their entire life cycle. This training unit will cover the basic activities of an Independent Safety Assessor in different phases as described in the CENELEC Standards.

The ISA process is carried out by an Independent Safety Assessor (ISA), who is an individual or organization that is independent of the railway application developer and is responsible for assessing the safety of the application. The ISA evaluates the safety of the application based on its compliance with applicable safety standards, regulations, and best practices.

The ISA process involves several phases, which are defined in the CENELEC Standards. These phases include:

- Hazard identification: In this phase, the ISA identifies potential hazards associated with the railway application and its subsystems.
- Risk assessment: In this phase, the ISA assesses the level of risk associated with each identified hazard. The risk assessment includes the likelihood of occurrence and the severity of consequences.
- Risk reduction: In this phase, the ISA identifies and evaluates safety measures that can be implemented to reduce the level of risk associated with each identified hazard.
- Safety validation: In this phase, the ISA evaluates the safety measures that have been implemented to ensure that they are effective in reducing the level of risk associated with each identified hazard.
- Safety assessment: In this phase, the ISA provides an overall assessment of the safety of the railway application based on the results of the hazard identification, risk assessment, risk reduction, and safety validation phases.

The Independent Safety Assessment process is essential for ensuring the safety of railway applications. It helps to identify potential hazards and assess their associated risks, as well as to identify and evaluate safety measures that can be implemented to reduce those risks. By providing an overall assessment of

the safety of the railway application, the ISA process helps to ensure that it meets the required safety standards, regulations, and best practices.

## Benefits

The benefits of this training on Independent Safety Assessment (ISA) for railway applications include:

- Understanding the importance of safety in the railway industry: The training provides an overview of the safety requirements and standards for railway applications, and how ISA plays a vital role in ensuring the safety of railway systems.
- Gaining knowledge of ISA process: The training covers the basic activities of the Independent Safety Assessor in different phases, as described in the CENELEC Standards. This knowledge helps individuals to understand the entire ISA process and the importance of each phase in ensuring safety.
- Enhancing safety management skills: The training provides insight into the safety management of railway applications, which enables individuals or organizations to identify potential hazards and implement safety measures that are effective in reducing risks.
- Ensuring compliance with safety standards: The training helps individuals or organizations to comply with safety standards and regulations that are required in the railway industry, which can avoid regulatory non-compliance and penalties.
- Improving system reliability and availability: By following the ISA process, individuals or organizations can improve system reliability and availability, which can lead to a reduction in downtime, cost, and increased customer satisfaction.

Overall, the training provides individuals or organizations with the knowledge and skills needed to ensure the safety of railway applications and subsystems throughout their entire life cycle, leading to a safer, more reliable, and efficient railway system.

## Target group

The target group for this training is individuals or organizations involved in the development, operation, or maintenance of railway applications, such as railway system engineers, safety managers, project managers, regulators, and assessors. This training is also suitable for anyone who is interested in understanding the process of Independent Safety Assessment for railway applications, including its subsystems, and its importance in ensuring safety in the railway industry.

## Requirements

No Prerequisites required. Anyone can complete this course.

# Training outline

The course topic for this training is "Independent Safety Assessment (ISA) for Railway Applications". The training covers the following topics:

- Introduction to Independent Safety Assessment (ISA) for railway applications
- Overview of safety requirements and standards for railway applications
- Basic activities of the Independent Safety Assessor in different phases
- Hazard identification and risk assessment
- Risk reduction and safety validation
- Safety assessment and overall safety evaluation
- Compliance with safety standards and regulations
- Importance of safety management in the railway industry
- System reliability and availability
- Case studies and practical examples of ISA for railway applications

By the end of this training, individuals or organizations will have a comprehensive understanding of the Independent Safety Assessment (ISA) process for railway applications, its importance, and how it can be implemented effectively to ensure safety, reliability, and availability of the railway system.

## Other information

For payment and other inquiries, please contact our Sales Executive:

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### ADDITIONAL INFORMATION

- Fees are inclusive of training materials and certificate.
- Training fees exclude 11% VAT.
- This e-learning will be valid for 1 months after first

## Event overview and booking

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