



# OT Railway Cybersecurity (OTCS)

Safeguarding Critical Railway Infrastructure with Advanced Cybersecurity Solutions.



[Click here to visit website](#)

## Course Overview

This face-to-face workshop is derived from our successful blended learning model, tailored to deliver concentrated, hands-on learning experiences. It provides the opportunity for direct interaction with cybersecurity experts and peers, facilitating immediate feedback and collaborative problem-solving.

## Key Benefits

- Understanding Cybersecurity Context: Learn the importance of cybersecurity within the railway sector.
- Identifying and Mitigating Threats: Discover how to spot vulnerabilities and implement effective countermeasures.
- Mastering Standards: Get acquainted with key standards like IEC63452, TS50701, and IEC62443, crucial for managing OT cybersecurity.
- Applying Comprehensive Knowledge: Deepen your understanding of how these standards can be applied to enhance cybersecurity across the railway network.



## Who Should Participate

This course is designed for those involved in the operational security and safety of railway systems, including:

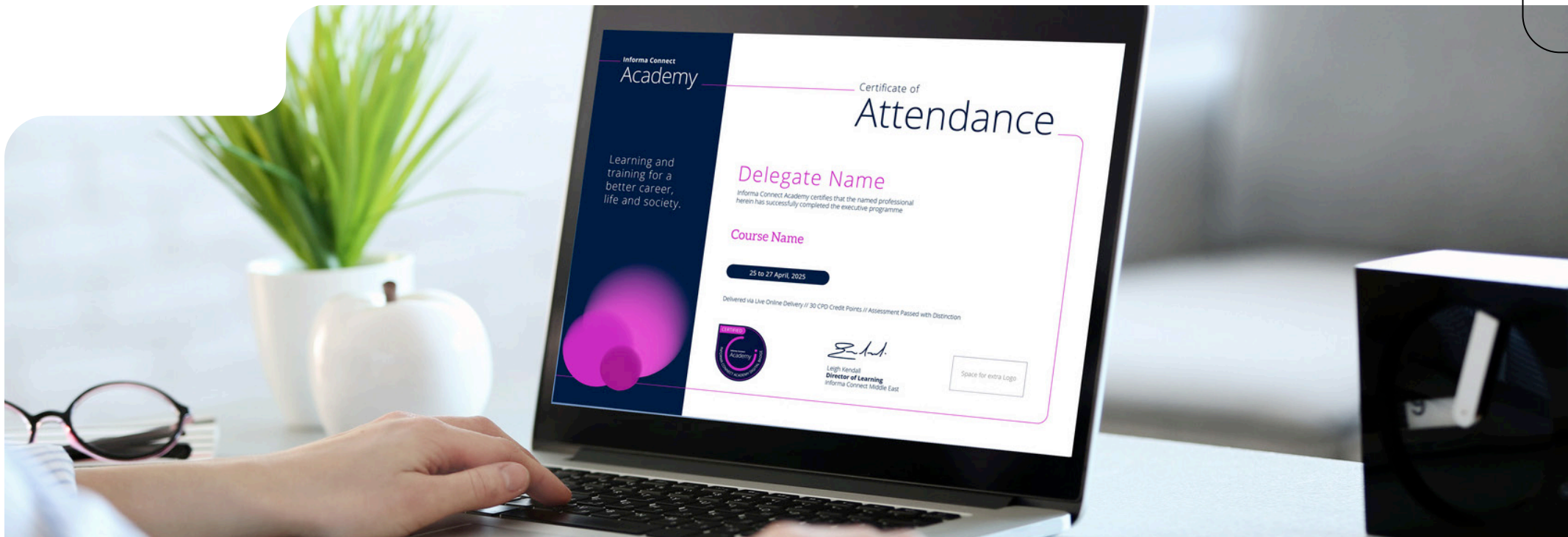
- Railway Business Leaders and Managers
- Railway Inspectors and Legislators
- Safety Professionals and Planners
- IT Professionals and Resilience Specialists
- Railway Engineers

## Course Requirements and Certificates

Delegates must meet two criteria to be eligible for an Informa Connect Academy Certificate of Completion:

- **Satisfactory attendance** - Delegates must attend all sessions of the course. Assessments will be ongoing and based on in-class participation and activities.

If delegates have not attended all sessions, the certificate will clearly state the number of hours attended. **In-person delegates will receive a printed certificate and virtual delegates will receive a digital certificate.**





## Day 1: Core Concepts and Real-World Applications

### Module 1: Introduction to Cybersecurity in Railway Systems

- Overview of cybersecurity principles and their relevance to rail.

### Module 2: Cyber Security Incidents

- Case study analysis of significant cybersecurity incidents.

### Module 3: Cyber Security Standards and Schemes

- Detailed look at important standards influencing the industry.

### Module 4: Cybersecurity within a Railway Application Lifecycle

- Practical application of cybersecurity measures throughout system lifecycles.

## Day 2: Advanced Implementation and Case Studies

### Module 5: Detailed Risk Assessment and Cybersecurity Requirements

- Advanced techniques for establishing cybersecurity frameworks.

### Module 6: Cybersecurity Assurance and System Acceptance

- Steps for validating and accepting cybersecurity measures.

### Module 7: Legacy Systems and Secure Design

- Strategies for managing cybersecurity in legacy systems and implementing secure design principles.

### Module 8: Conclusions and Practical Examination

- Summary of key concepts and a test to evaluate participants' understanding.

## ACTIVE LEARNING

### Case Studies

Participants will engage with four detailed case studies throughout the workshop:

- Comprehensive Security Programme: Overview of establishing a full-scale cybersecurity program.
- Rolling Stock Case Study for Legacy Vehicles: Challenges and solutions in securing legacy railway vehicles.
- Developing Secure Devices: Best practices in the design and development of secure railway devices.
- Using Current Standards to Develop Signalling Systems (e.g., ERTMS): Applying standards like ERTMS to enhance signalling systems' security.



## Howard Parkinson

Dr Howard Parkinson is a Chartered Engineer contributing to global standards in railway safety, software and systems engineering. With over 20 years of international experience, he has held senior roles in signalling, rolling stock, infrastructure, and railway systems, including Systems Assurance Manager and Head of Systems Engineering and Safety. His expertise spans metro, tram, and heavy rail, with a focus on safety, compliance, and reliability.

A Fellow of the Institution of Mechanical Engineers (FIMechE) and a member of the Institution of Railway Signal Engineers (MIRSE), Howard holds a doctorate in Mechanical and Aeronautical Engineering from the University of Manchester. Alongside consultancy and research, he delivers specialised training in engineering, safety, risk management, European interoperability, and railway legislation.





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## Run This Course In-Company



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### ABOUT INFORMA CONNECT ACADEMY

**Informa Connect**

# Academy

**Informa Connect Academy** is a premier provider of global education and training solutions that caters to a diverse range of professionals, industries, and educational partners. We are dedicated to promoting lifelong learning and are committed to offering learners expert guidance, training, and resources to help them stay competitive in a rapidly changing world.

Our comprehensive range of courses and programmes are tailored to meet the needs of all professionals, from aspiring specialists to seasoned experts. We partner with elite academic organisations and industry leaders with unmatched expertise in their respective fields to deliver an exceptional learning experience.

### ABOUT TIMINGS, PRICING AND DOCUMENTATION

Course fees include documentation, luncheon and refreshments for in-person learners. Delegates who attend all sessions and successfully complete the assessment, will receive a Informa Certificate and any applicable partner certificates. A hard copy will be provided to in-person learners and a soft-copy will be provided to virtual learners.

### AVOID VISA DELAYS – BOOK NOW

Delegates requiring visas should contact the hotel they wish to stay at directly, as soon as possible.

To avoid delays, please ensure you apply for your visa several weeks before your intended travel date. Visa processing times can vary.

### REGISTRATION, PAYMENTS AND CANCELLATION

All registrations are subject to our terms and conditions which are available at <https://informaconnect.com/delegate-terms-and-conditions>. Please read them as they include important information. By submitting your registration, you agree to be bound by the terms and conditions in full. All registrations are subject to acceptance by Informa Connect which will be confirmed to you in writing.

A confirmation letter and invoice will be sent upon receipt of your registration. Please note that full payment must be received prior to the course. Only those delegates whose fees have been paid in full will be admitted to the course.

For full cancellation details, please visit <https://informaconnect.com/delegate-terms-and-conditions>. All cancellations must be sent by email to [training@informa.com.au](mailto:training@informa.com.au) marked for the attention of Customer Services Cancellation. Due to unforeseen circumstances, Informa Connect reserves the right to cancel the course, change the programme, alter the venue, speaker or topics. For full details, please visit [www.informaconnect.com/academy](http://www.informaconnect.com/academy).





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