



OT Railway Cybersecurity (OTCS)

This in-person training offers focused, hands-on training with cybersecurity experts. Get immediate feedback and collaborate with peers to solve real-world problems.



Duration: Two Days

Attend In-Person

Refer to website for details

Course Information

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.

Course Schedule

The course will commence at 9:00 and end at 17:00 (AEST) on each day.

Benefits of Attending

- **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 Attend

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. Delegates who miss more than 2 hours of the course sessions will not be eligible to sit the course assessment if applicable.
- **Successful completion of the course assessment** - Assessments will be ongoing and based on in-class participation and activities.

Delegates who do not meet these criteria will receive a Certificate of Attendance. If delegates have not attended all sessions, the certificate will clearly state the number of hours attended. In-person delegates will receive a printed (or hard copy) certificate and digital delegates will receive a soft copy.

Course Faculty



Dr Howard Parkinson, Chartered Engineer

Howard is a chartered engineer with over 20 years of experience in the international railway industry, more recently as an independent consultant, researcher and trainer. He has experience in signaling, rolling stock, infrastructure and railway systems projects at a senior level and has just finished an assignment in Australia working on systems integration for automatic train protection.

His project positions at senior levels have included systems assurance manager, senior project manager, lead safety assessor, and head of systems engineering and safety. He has had experience in metro, tram and heavy rail (conventional and high speed).

Howard has expertise in systems engineering, compliance, safety /notified body assessment, safety and reliability engineering, the latest safety standards, European interoperability and UK legislation.

His current research interests include safety engineering in the railway, accident investigation and systems engineering. Howard has been deployed internationally in countries including: Australia, Korea, Germany, The Netherlands, UK, Croatia, Saudi Arabia, Canada and China. In addition to his consulting and research work, Howard designs, develops and delivers training to industry in the areas of engineering, safety and risk management.



Course Outline

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.

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.



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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.

REGISTRATION, PAYMENTS AND CANCELLATION

All registrations are subject to our terms and conditions which are available at www.informa.com/generic-content/terms--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 www.informaconnect.com/terms-of-use/. All cancellations must be sent by email to 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.

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