MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

Phone: +601116373203 | **Email:** info@mawaevents.net

INDUSTRIAL CONTROL SYSTEM SECURITY & CYBER-SAFETY

"Protect your industrial operations with advanced ICS security and cyber-safety practices"

Schedule

Date	Venue	Fees (Face-to-Face)
09 – 11 Nov 2026	Riyadh, KSA	USD 2495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

Industrial Control Systems (ICS) are critical for the operation of modern industrial and manufacturing facilities. This 3-day face-to-face training equips participants with comprehensive knowledge of ICS security, cyber threats, and safety measures to protect operational technology (OT) environments. Attendees will learn to identify vulnerabilities, mitigate risks, and implement robust cyber-safety protocols for industrial systems.

The course combines theoretical frameworks with hands-on exercises, real-world case studies, and interactive discussions. By the end of the program, participants will have the practical skills to safeguard industrial control systems against cyber-attacks, ensuring operational continuity and safety in their facilities.

Objectives

By the end of this course, participants will be able to:

- Understand the fundamentals of Industrial Control Systems and their security requirements.
- Identify cyber threats, vulnerabilities, and risks affecting ICS environments.
- Implement security measures and safety protocols for industrial operations.
- Apply best practices for incident response and threat mitigation.
- Enhance the overall cyber resilience of industrial facilities.

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Why Attend

- Gain practical knowledge of ICS security and cyber-safety principles.
- Learn to protect industrial operations from cyber threats.
- Enhance operational reliability, safety, and compliance.
- Network with professionals in industrial security and cybersecurity.
- Apply actionable strategies to strengthen ICS security and OT resilience.

Target Audience

This program is designed for:

- Industrial engineers and operators.
- ICS/OT security professionals and IT security teams.
- Plant managers and operational staff responsible for industrial systems.
- Cybersecurity officers and auditors in manufacturing or industrial facilities.

Individual Benefits

Key competencies that will be developed include:

- Understanding ICS architecture and security challenges.
- Skills in identifying, assessing, and mitigating cyber risks.
- Knowledge of incident response and recovery procedures.
- Ability to implement cyber-safety measures in industrial environments.

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved security and resilience of industrial control systems.
- Reduced risk of operational disruption due to cyber threats.
- Enhanced compliance with industrial and cybersecurity standards.
- Increased operational efficiency and safety in industrial facilities.

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings – ICS security principles, cyber threats, and safety frameworks.
- Case Studies – Real-world industrial cyber-attack scenarios and mitigation strategies.
- Workshops – Hands-on exercises in threat assessment, security implementation, and incident response.
- Peer Exchange – Group discussions on challenges, best practices, and lessons learned.
- Tools – Security checklists, guidelines, and templates for ICS cyber-safety implementation.

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Course Outline

Detailed 3-Day Course Outline

Training Hours: 9:00 AM – 5:00 PM Daily Format: 3–4 Learning Modules | Coffee Breaks & Lunch included

Day 1: ICS Fundamentals and Threat Landscape (09:00 – 04:00)

Module 1: Introduction to Industrial Control Systems (09:00 – 11:00)

- Overview of ICS, SCADA, and OT systems.
- Operational importance and critical infrastructure considerations.

Module 2: Cyber Threats and Vulnerabilities (11:15 – 01:00)

- Common cyber threats and attack vectors in industrial environments.
- Vulnerability assessment and risk identification.

Module 3: ICS Security Policies and Frameworks (02:00 – 04:00)

- Security standards, policies, and best practices.
- Governance and compliance requirements.

Day 2: Cyber-Safety Measures and Incident Response (09:00 – 04:00)

Module 4: ICS Security Implementation (09:00 – 11:00)

- Network segmentation, access control, and monitoring.
- Security tools and protective measures.

Module 5: Incident Response and Recovery (11:15 – 01:00)

- Threat detection, incident handling, and mitigation.
- Recovery strategies to ensure operational continuity.

Module 6: Case Studies and Practical Exercises (02:00 – 04:00)

- Analysis of real-world industrial cyber incidents.
- Hands-on exercises in implementing cyber-safety measures.

Day 3: Advanced ICS Security and Risk Management (09:00 – 04:00)

Module 7: Risk Assessment and Management (09:00 – 11:00)

- Identifying and prioritizing risks.
- Developing mitigation strategies.

Module 8: Emerging Threats and Future Trends (11:15 – 01:00)

- Latest trends in ICS cybersecurity.
- Preparing for future cyber challenges.

Module 9: Action Planning and Peer Exchange (02:00 – 04:00)

- Developing actionable ICS security plans.
- Group discussion on lessons learned and best practices.

Certification

Participants will receive a Certificate of Completion in Industrial Control System Security & Cyber-Safety, validating their expertise in securing industrial systems, mitigating cyber threats, and implementing operational cyber-safety practices.

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Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation's unique goals.

In-House / Customized Training Interested in running this course for your team? Please contact us:	TEL: **+601116373203**	EMAIL: **info@mawaevents.net**