



ICS Cyber Security Management System

Course Syllabus

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ICS Cyber Security Management System**Integrated Course (Class Sessions + Workshops)**

Total 5 days course consist of varies class sessions integrated with workshop sessions includes the fundamental of four (4) engineering topics, IT Engineering, Cybersecurity Engineering, ICS/OT Engineering, and ICS/OT Cybersecurity Engineering as the integrated knowledge building to master the ICS/OT cybersecurity assurance.

The Course's Goal

"Develop the professional on ICS Cyber Security Assurance with proper technical skills, knowledge and awareness"

The Targeted Participant

Instrument & Control Engineer, IT Engineer, SCADA Engineer, Process Control Domain Engineer, Network Engineer, IT Security Engineer, Instrument & Control Project Engineer, IT Security Auditor, Process Control Domain Auditor.

Course Highlight

- Integrated learning experience with more advanced content
- Case studies and game sessions
- ICS Cyber Security Audit and Assessment Workshop (Emergency Response, Network Management, Risk Assessment, Maturity Assessment)
- Recommended Practices on ICS Cyber Security Assurance
- Hands-On Skills
- Lesson Learned

Course Detailed Content

- Computer Engineering
- Network Engineering
- Lab Session
- Lesson Learned "Privacy is not Private (Anymore)"
- Industrial Control System (ICS) Engineering
- Cyber Security Engineering
- Lab Session
- Lesson Learned "Government Eyes are Watching" – The Prism Project
- ICS Cyber Security Essentials
- ICS Cyber Security Management System (Part 1)
- Workshop "Introduction to ICS Cyber Security Assessment"
- Lesson Learned "The Stuxnet – What is Being Exposed"
- ICS Cyber Security Management System (Part 2)
- ICS Security Controls
- Workshop "ICS Emergency Response"
- Workshop "ICS Network Management"
- Workshop "ICS Cyber Security Risk Assessment"
- ICS Security Program Development & Deployment
- Special Topic

- Workshop “Integrated ICS Cyber Security Audit and Assessment using CSET Tools”
- Course Wrap Up and Closing

- **Building the Mindset, Prepare the Skills, Facing the Challenges**

Strong understanding on the ICS/OT cybersecurity engineering is a must, as the critical milestone to build the proper mindset, develop specific skills, in order to face the future challenge threatening the ICS/OT environment. The ICS/OT cybersecurity professional should have thorough understanding as the pillars of ICS/OT cybersecurity assurance. This course provides the things that the next ICS/OT cybersecurity professionals need, in term of shifting the mindset, hands-on skills, and proper awareness to face the future challenges in the ICS/OT environment.

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