ISA/IEC62443 Series of Standards Fundamentals Course

Course code: ICS150

1 day	7 CPEs	No equipment needed

The **ICS150: ISA/IEC62443 Overview course**, has been designed to provide those in management and engineering the understanding of ISA/IEC62443. ISA/IEC 62443 is an international series of standards that address cybersecurity for Operational Technology (OT) in automation and control systems. The standard is divided into different sections and describes both technical and process-related aspects of automation and control systems cybersecurity. This knowledge is vital when protecting Critical National Infrastructure (CNI).

Pre-Requisites

There are no pre-requisites for this course.

Who Should Attend

If you are a manager responsible or accountable for any aspect of an ICS environment including:

- Business Technical/Engineering Lead.
- Procurement/Contract staff.
- ICS Policy/Decision Maker.
- Site/Asset Owners.
- Organisation Legal Advisors
- ICS Project Managers.
- ICS Systems Engineer.
- Systems Integrator.
- Vendors/OEMs.

What To Expect

By the end of the course you will be familiar with:

- The ISA/IEC62443 standards.
- Assessing Risks, Threats, and Vulnerabilities.
- Designing and implement controls to meet the standards.
- Developing and maintaining an OT Cybersecurity program.
- The importance of Security Awareness and Training.

Session Descriptions

Session 1: Background
Contents:

- What is ISA/IEC62443?
- History and Context.
- Structure; over of the 4 categories, 14 sections.
- How the standards apply to Stakeholders.
- Maturity and Security Levels.
- Concepts:
  o Defence in Depth; Purdue Model.
  o Zone and Conduits; Best Practices.

Session 2: Key Standards
Contents:

- 62443-1-1 Foundational Requirements.
- ISA/IEC62443-2-1 Security Program Requirements for IACS Asset Owners.
- 62443-3-2 Risk Assessments & System Design.
- 62443-3-1 Technologies.
- 62443-3-3 System Requirements & Security Levels.
- ISA Certification & Training.

Accreditation

This course is an awareness level course which provides an introduction to the standard and highlights next steps.

CyBOK Knowledge Areas

This course addresses the following Knowledge Areas:
- Cyber Physical Systems.
- Risk Management and Governance.
- Security Operations and Incident Management.