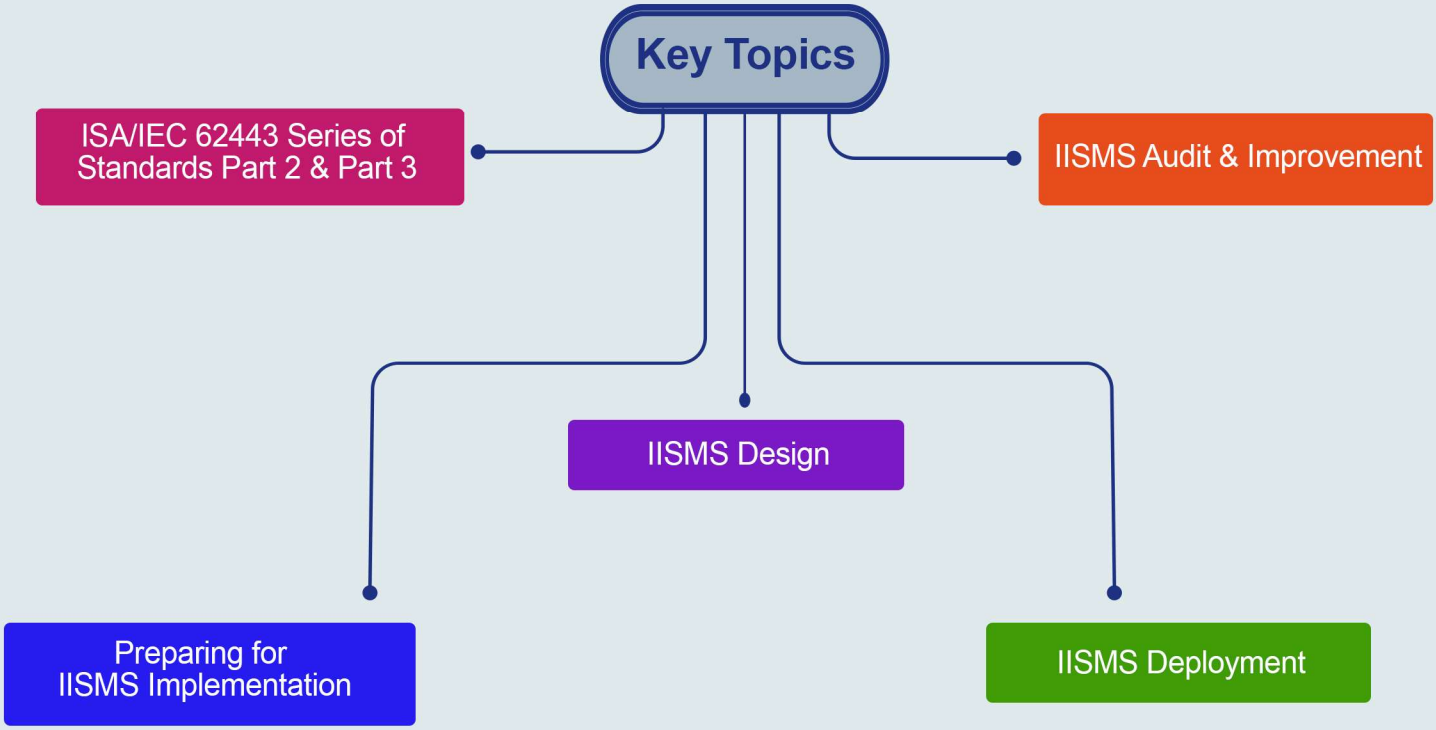
About the Course

Safety is critical to the successful operations of manufacturing and industrial sites, and a quality security team enhances critical safety programs, creating safer, more secure and cost-efficient working conditions. As industrial machines, equipment and systems grow more and more connected, manufacturers are more vulnerable than ever to cyberattacks. The same technologies and platforms that allow companies to drive unparalleled efficiency and quality also increase the risk of crippling cyber-attacks. This course is about Industrial Information Security Management System. In this course we talk about IISMS concepts and definitions, standards and how to design, implement, audit and improve an IISMS project.

Learning Objectives

1. Understanding IISMS Concepts
2. Interpreting the ISA/IEC 62443 Series of Standards Part 2
3. Interpreting the ISA/IEC 62443 Series of Standards Part 3
4. Designing IISMS
5. Implementing IISMS
6. IISMS Audit & Improvement

Key Topics



Pre Requisites

- Industrial Systems Security Essentials Course

Terminus System

What You Will Receive

- Course Presentation File
- Complementary Files
- Industrial Information Security Design & Implementation eBook

Who Should Attend

Anybody who wants to make his/her carrier in Information Security and be an expert in Industrial Systems' Security including:

- Industrial Systems Pentesters
- Industrial Security Specialists
- Information Security Auditors

Syllabus

What is IISMS?

- o IISMS Definitions
- o IISMS Implementation Methodology

ISA/IEC 62443 Series of Standards Part 2

- o ISA/IEC 62443-2-1 Security Programs Requirements for IACS Asset Owners
- o ISA/IEC 62443-2-2 Security Protection Rating
- o ISA/IEC 62443-2-3 Patch Management in the IACS Environment
- o ISA/IEC 62443-2-4 Requirements for IACS Service Providers
- o ISA/IEC 62443-2-5 Implementation Guidance for IACS Asset Owners

ISA/IEC 62443 Series of Standards Part 3

- o ISA/IEC 62443-3-1 Security Technologies for IACS
- o ISA/IEC 62443-3-2 Security Risk Assessment and System Design
- o ISA/IEC 62443-3-3 System Security Requirements and Security Levels

ISA/IEC 62443 Series of Standards Part 4

- o ISA/IEC 62443-4-1 Secure Product Development Lifecycle Requirements
- o ISA/IEC 62443-4-2 Technical Security Requirements for IACS Components

Preparing

- o Readiness Analysis
- o Challenge Treatment

Syllabus

Design

- Cognition Stage
- Asset Inventory
- Process Definition
- Network Architecture
- Scope Definition
- Asset Evaluation
- Risk Assessment
- Gap Analysis
- Security Objectives
- Security Policy
- Security Organization
- Statement of Applicability
- Risk Treatment
- Technical Policies
- Procedures
- Training
- Business Continuity Plan & Disaster Recovery

Deployment

- Implementation Planning
- Implementation Management

Audit

- Effectiveness Assessment
- Internal Audit
- Review

Syllabus

Improvement

o Corrective Activities
o Improvement

Hands-on Training

- Lab 1: IISMS Scope Definition
- Lab 2: IISMS Readiness Assessment
- Lab 3: Sample IISMS Project