Cyber Security Risk Assessment & Management

IT & IT Engineering
Düsseldorf (Germany)
21 - 25 Apr 2025

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Introduction

This Cyber Security Risk Assessment and Management course will teach you how how to conduct a security risk assessment to protect your organisation. You will learn about the laws and regulations that impose strict cyber security requirements on all organisations, and gain the skills to develop a compliance assessment plan and employ a standards-based risk management process while maintaining a satisfactory security posture. Attendees should have a basic knowledge of business processes and technology concepts. No specialised technical knowledge is assumed

Course Objectives:

- Implement standards-based, proven methodologies for assessing and managing the risks to your organization's information infrastructure
- Select and implement security controls that ensure compliance with applicable laws, regulations, policies, and directives
- Extend security protection to Industrial Control Systems ICS and the cloud

Risk Assessment and Management Course Outline:

Day 1

Introduction to Risk Assessment and Management

- Ensuring compliance with applicable regulatory drivers
- Protecting the organisation from unacceptable losses
- Describing the Risk Management Framework RMF
- Applying NIST/ISO risk management processes

Characterising System Security Requirements

Defining the system

- Outlining the system security boundary
- Pinpointing system interconnections
- Incorporating the unique characteristics of Industrial Control Systems ICS and cloud-based systems

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Identifying security risk components

- Estimating the impact of compromises on confidentiality, integrity and availability
- Adopting the appropriate model for categorising system risk

Setting the stage for successful risk management

- Documenting critical risk assessment and management decisions in the System Security Plan SSP
- Appointing qualified individuals to risk governance roles

Day 2

Selecting Appropriate Security Controls

Assigning a security control baseline

- Investigating security control families
- Determining the baseline from system security risk

Tailoring the baseline to fit the system

- Examining the structure of security controls, enhancements and parameters
- Binding control overlays to the selected baseline
- Gauging the need for enhanced assurance
- Distinguishing system-specific, compensating and non-applicable controls

Day 3

Reducing Risk Through Effective Control Implementation

Specifying the implementation approach

- Maximising security effectiveness by "building in" security
- Reducing residual risk in legacy systems via "bolt-on" security elements

Developing an assessment plan

- Prioritising depth of control assessment
- Optimising validation through sequencing and consolidation
- Verifying compliance through tests, interviews and examinations

Formulating an authorisation recommendation

- Evaluating overall system security risk
- Mitigating residual risks
- Publishing the Plan of Action and Milestones POA&M, the risk assessment and recommendation

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Day 4

Authorising System Operation

Aligning authority and responsibility

- Quantifying organisational risk tolerance
- Elevating authorisation decisions in high-risk scenarios

Forming a risk-based decision

- Appraising system operational impact
- Weighing residual risk against operational utility
- Issuing Authority to Operate ATO

Day 5

Maintaining Continued Compliance

Justifying continuous reauthorisation

- Measuring impact of changes on system security posture
- Executing effective configuration management
- Performing periodic control reassessment

Preserving an acceptable security posture

- Delivering initial and routine follow-up security awareness training
- Collecting on-going security metrics
- Implementing vulnerability management, incident response and business continuity processes

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