KOENIG SOLUTIONS · COURSE OUTLINE

ISA Secure Automation and Control System Security Assurance (ACSSA) for Evaluators

3 Days	42	IC49
DURATION	TOPICS	COURSE CODE

COURSE OVERVIEW

ISASecure Automation and Control System Security Assurance (ACSSA) for Evaluators (IC49) delivers a clear, step-by-step approach to evaluating the cybersecurity of industrial automation control systems (IACS) in alignment with the ISA/IEC 62443 standards. Learn how to determine eligibility for inspection or certification, understand the roles of evaluators, control system owners and service providers and define a focused evaluation scope. Gain practical insight into reviewing risk assessments, assessing maturity levels and examining documented policies and procedures. Verify real-world practices through interviews and artifact review, then inspect technical configurations across zones and conduits. This course emphasizes objective evidence, risk-based sampling methods and how to identify and document nonconformities, showing how individual findings come together to form a defensible evaluation result. Build hands-on skills to plan and execute ACSSA evaluations, sample zones and conduits and produce traceable reports that map findings directly to ISA/IEC 62443 requirements. Strengthen the organization's ability to conduct structured, well-documented evaluations of operational control systems, generate credible evidence of security program maturity and demonstrate how service-provider practices and contractual scope influence overall security posture. Create structured reports that support internal decision making, regulatory discussions and insurer reviews. Understand how sampling choices affect confidence in evaluation results so you can deliver assessments that stand up to scrutiny. Note: The IC49 course is a prerequisite for performing inspections and certifications under the ACSSA program.

WHO THIS COURSE IS FOR

- IC49 is designed for professionals experienced in applying the ISA/IEC 62443 standards to evaluate or support cybersecurity programs, including:
- Conformity assessment body auditors
- Asset owners preparing for an ACSSA evaluation

- Consultants supporting industrial cybersecurity programs
- Engineers responsible for system security reviews

PREREQUISITES

- Students must have detailed knowledge and experience in implementing the ISA/IEC 62443 standards, specifically:
- ANSI/ISA-62443-2-1-2024, Security for Industrial Automation and Control Systems – Part 2-1: Security Program Requirements for IACS Asset Owners
- ANSI/ISA-62443-3-2-2020, Security for Industrial Automation and Control Systems – Part 3-2: Security Risk Assessment for System Design
- ANSI/ISA-62443-3-3-2013, Security for Industrial Automation and Control Systems – Part 3-3: System Security Requirements and Security Levels
- IEC 62443-2-4:2023, Security for Industrial Automation and Control Systems – Part 2-4: Security Program Requirements for IACS Service Providers
- It is highly recommended that students possess the ISA/IEC 62443 Expert certificate.

COURSE SYLLABUS

1 Module, 42 Topics

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TOPICS

- Describe the ACSSA program.
- List the benefits of the ACSSA program.
- List the standards addressed by ACSSA.
- State the objectives of an ACSSA evaluation.
- Explain why an asset owner might elect ACSSA inspection vs. certification.
- Identify the ACSSA specifications and their purpose.
- Describe the roles of the ACSSA participants.
- Identify the criteria to determine the eligibility of an asset owner's IACS.
- Define the IACS to be evaluated.
- Describe the activities involved in an ACSSA evaluation.
- Identify asset owner information.

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TOPICS (CONTINUED)

- Describe the contents of an evaluation plan.
- Describe the process for creating an approved plan.
- Practice the creation of an evaluation plan.
- Define the risk assessment evaluation.
- Employ methods to evaluate asset owner conformity to security risk assessment requirements.
- Practice the inspection of risk assessment policies, procedures and artifacts.
- Define the asset owner maturity level 2 evaluation.
- Employ methods to evaluate conformity of asset owner policies and procedures as documented to ISA/IEC 62443-2-1 requirements.
- Define the scope of service provider evaluation.
- Employ methods to evaluate conformity of service provider policies and procedures as documented to ISA/IEC 62443-2-4 requirements.
- Explain the criteria for passing the ACSSA evaluation at maturity level 2 for an ISA/IEC 62443-2-1 or ISA/IEC 62443-2-4 requirement.
- Define the asset owner maturity level 3 evaluation.
- Define sampling plan.
- Employ the methods to evaluate asset owner policy and procedure artifacts.
- Employ methods to evaluate the usage of required system technical capabilities.
- Examine the configuration of technical capabilities.
- Employ methods to evaluate service provider policy and procedure artifacts.
- Describe how individual evaluation results create an overall evaluation status.
- Describe the differences between inspection and certification reports.
- Describe the contents of the evaluation report.
- Describe what information is reported about non-conformities to the asset owner.
- Enumerate the criteria for nondisclosure of documentation related to the evaluation.
- Describe the content of an ACSSA certificate.
- Describe the lifecycle of an ACSSA certificate.
- Describe surveillance.
- Practice planning of surveillance activities.

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TOPICS (CONTINUED)

- Practice execution of surveillance activities.
- Practice updating the certification status based on surveillance results.
- Describe the activities performed for recertification.
- Compare recertification to initial certification and surveillance.
- Explain the requirements to make a decision about recertification.

RECOMMENDED RESOURCES

Suggested Preparation

- It is recommended that students become familiar with the ISASecure ACSSA specifications prior to class.
- If you have access to the ACSSA specification, it is recommended that you bring it to class. If you do not possess a copy, the specific parts needed to complete the exercises will be provided.

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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