TÜV Rheinland Cyber Security Training Program
Cyber Security Fundamental

Unlock your potential in Cyber Security with the TÜV Rheinland Cyber Security Training Program!

About the Program:

Experience a unique opportunity to showcase your expertise in Cyber Security with the TÜV Rheinland Cyber Security Training Program. As an internationally recognized organization, we offer a platform for individuals to validate their competency in this critical field.

Upon successful completion of the fundamentals course and exam, delegates will receive a prestigious "Letter of Confirmation" from TÜV Rheinland. This acknowledgment grants access to advanced training in either Cyber Security Risk Assessment or Cyber Security Component.

Achieving the CySec Specialist (TÜV Rheinland) certificate requires completing the full certificate program, including the fundamentals course and exam, along with either the Security Risk Assessment or Component course and exam. This esteemed certification showcases proficiency in assessing and specifying Industrial Automation Control and Safety System (IACS) Security or product security.

By earning this certification, individuals equip themselves with the necessary skills to:

- Mitigate the risk of successful cyber attacks
- Ensure compliance with legal and regulatory requirements
- Align with organizational system security and business objectives

Join us and elevate your capabilities to safeguard against cyber threats while meeting industry standards and objectives

TVC Functional Safety Services FZ-LLC

JT010126, Service Block, Al Jazirah Al Hamra, RAKEZ Business Zone-FZ, Ras Al Khaimah, United Arab Emirates / Training license 52000154

Telephone: +971 55 717 3077 / Email: info@tinovc.com / Web: www.tinovc.com

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Curriculum Highlights:

The Fundamentals component of this qualification delves into key areas, ensuring participants gain a solid understanding of:

- Industrial Protocols, Networks, and Network Security types
- ISO/OSI Reference Model Cryptography
- IEC 62443 Framework
- NIST Cyber Security Framework (CSF)
- Establishing an Industrial Automation and Control Systems Security Program
- Risk Analysis
- Addressing Risk with the Cyber Security Management System (CSMS)
- Monitoring and Improving the CSMS

Course Objectives:

This course aims to furnish participants with foundational knowledge in cybersecurity, enabling them to grasp the principles and methodologies introduced in the advanced IACS Cybersecurity Risk Assessment training course based on IEC 62443, or the IEC 62443-4 Cybersecurity Component course within the TÜV Rheinland Cyber Security Training Program.

The course follows a modular classroom structure, culminating in a 90-minute exam.

Upon successful completion of the fundamentals course and exam, delegates will be awarded a "Letter of Confirmation" from TÜV Rheinland, validating their achievement.

Day 1 Agenda

- Industrial networks vs. Business networks
- Network types
- ISO/OSI Reference Model
- OSI Layer 1: Physical
- Layer 2 Switches
- IPv4 Addressing
- Network Address Translation (NAT)
- DHCP

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Day 2 Agenda

- Routers
- Layer 3 Switches
- TCP – Connection Oriented Session
- User Datagram Protocol (UDP)
- Firewalls
- Cryptography
- Remote Access VPNs
- Intrusion Detection Systems

Day 3 Agenda

- Modbus
- Profibus
- IEC62443 Framework
- NIST Cyber Security Framework (CSF)
- Establishing an Industrial Automation and Control Systems Security Program
- Risk Analysis
- Addressing Risk with the CSMS
- Monitoring and Improving the CSMS

Day 4 Agenda

A 90-minute exam competency examination compromising 75 multiple-choice questions (1 mark each question, no negative marks).

The pass score criterion is 75%

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Who Should Attend?

This course is designed for a diverse range of professionals including Functional, Process, Technical Safety, and Product Design Engineers, Control and Instrument Engineers and Managers, Process Engineers, Operations personnel and managers, maintenance staff, consultants, advisors, and individuals involved in product development, management, engineering, operations, and safety of process operations. It is ideal for those who require a foundational understanding of cyber security and intend to pursue further training in the TÜV Rheinland CySec Security Risk Assessment or Product Design and Development courses and exams.

Participant Eligibility Requirements:

Participants should meet the following criteria as per the TÜV Rheinland Functional Safety and Cyber Security Training Program:

- Minimum of 3 to 5 years of experience in a related field (e.g., Control & Instrumentation, process engineering, IT/OT, functional safety, or cyber security).
- Possession of a university degree or equivalent engineering experience and responsibilities as certified by the employer or engineering institution.

Course Provider:

TVC Functional Safety Services FZ-LLC. Learn more at https://tinovc.com

Course Schedule:

Please visit our website current schedule at https://tinovc.com/calendar/

Contact:

For more information contact us via info@tinovc.com

Secure your spot in this acclaimed Cyber Security Training Program from TÜV Rheinland !

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