



# **OT/ICS Security**

# **Course Highlights**



20 hrs of instructorled training



Blended learning delivery model



Comprehensive introduction to OT/ICS security for IT and OT professionals



Covers a wide range of topics, including architecture, threats, riskmanagement, and industry standards



Focuses on theoretical aspects, providing a strong foundation in OT/ICS security fundamentals.



Taught by experienced instructors with expertise in OT security



Designed to be accessible to participants with varied backgrounds in IT and OT



### **Course Overview**

The physical equipment, procedures, and infrastructure employed in a variety ofindustrial settings, including transportation, energy, manufacturing, and utilities, aremonitored or controlled by OT. OT systems are made up of connected controllelements that operate together to achieve a certain goal. The Fundamentals of OT/ICS Security course from InfosecTrain aims to provide you with a comprehensive understanding of the entire OT/ICS components, architecture, tools, technologies, best practices and much more.





# Why OT/ICS Security Training with InfosecTrain?

InfosecTrain is a proficient security training and consulting organization across the globe that specializes in various IT security courses and services. Our OT/ICS training aims to teach the candidates all about the fundamentals of Operational Technology. You can leverage the following benefits with InfosecTrain:

- We can help you present your qualifications and work experience for the designated profile.
- We provide a flexible training schedule.
- We provide post-training assistance.
- We create groups for discussion.
- We also provide a certificate of participation to each candidate.



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## Target Audience

- IT professionals seeking to understand OT/ICS security
- OT professionals with limited security background
- Security Analysts, Engineers, and Administrators interested in expanding their expertise to OT/ICS security
- Managers and decision-makers responsible for OT/ICS security

#### Pre-requisites

- Basic understanding of IT and/or OT systems
- Familiarity with computer networking concepts
- No prior knowledge of OT/ICS security is required

#### **Course Objectives**

- Provide an understanding of the importance of OT/ICS security
- Develop familiarity with key components, architecture, and protocols in OT/ICS systems
- Examine the threat landscape, vulnerabilities, and notable incidents
- Learn to conduct risk assessments and apply mitigation strategies
- Understand and apply security best practices and industry standards www.infosectrain.com



#### **Course Content**

# 1. Introduction to OT/ICS Security

- Overview of OT and ICS
- Importance of OT/ICS Security
- Differences between IT and OT Security

# 2. Understanding OT/ICS Components and Architecture

- Key Components in OT/ICS (PLCs, RTUs, DCS, SCADA, HMI, Engineering Workstation etc.,)
- ICS Network Architecture and Protocols
- ICS Network Segmentation and Zoning

# 3. Threat Landscape and Vulnerabilities

- Common OT/ICS Threats and Attack Vectors
- Vulnerabilities in OT/ICS Systems
- Notable Incidents and Case Studies



#### 4. Risk Assessment and Management

- Risk Assessment Methodologies for OT/ICS
- Mitigation Strategies and Risk Treatment
- Monitoring and Incident Response Planning

# 5. OT/ICS Security Best Practices and Standards

- Overview of OT/ICS Security Standards (NIST 800-82, IEC62443, NERC
  CIP, Sector Specific standards)
- Security Policies, Procedures, and Controls.
- Physical and Environmental Security Considerations.

# 6. Overview of Tools and Technologies for OT/ICS Security

- Network Traffic Analysis Tools (e.g., Wireshark)
- Network Monitoring and Anomaly Detection Solutions (e.g., Suricata, Snort)
- Firewall and Security Solutions for OT/ICS Environments



#### **Career Benefits**

\$104436 OT/ICS Security Analyst \$75221 OT/ICS Security Consultant \$135200 OT/ICS Cyber Security Architect \$90623 Incident Response Specialist \$150000 Compliance and Risk Management Specialist \$97000 OT/ICS Security Engineer \$96351 OT/ICS Project Manager



\* Source: Glassdoor & Naukri.com

OT/ICS Security Sales Engineer

\$90090