



ICS/SCADA Cybersecurity

Course Duration: 24 Hrs.

Course code: EICS-SCADA

Course Overview

An ICS/SCADA Cybersecurity course provides a comprehensive understanding of securing Industrial Control Systems (ICS) and Supervisory Control and Data Acquisition (SCADA) networks, equipping learners with the knowledge and skills to protect critical infrastructure from cyber threats.

What you'll learn?

Understanding ICS/SCADA Systems:

You'll learn about the fundamental principles, components, and architectures of ICS/SCADA systems, including their purpose and deployment in various industries.

* Cybersecurity Principles:

The course will introduce you to core cybersecurity concepts, including threats, vulnerabilities, and common attack vectors relevant to ICS/SCADA environments.

ICS/SCADA Protocols:

You'll gain knowledge of common protocols used in ICS/SCADA systems, such as Modbus, DNP3, and OPC, and how they relate to security.

Target Audience

Business System Analysts who support SCADA interfaces. System Administrators, Engineers, and other IT professionals who are administering, patching, securing SCADA, and/or ICS. Security Consultants who are performing security assessments of SCADA and/or ICS.

EC-Council

Pre-Requisites

* Networking Fundamentals:

A solid grasp of essential networking concepts is crucial, including the OSI model, TCP/IP, networking devices (routers, switches), and transmission media.

- Linux Operating System:
 Basic knowledge of Linux command-line usage is beneficial.
- * Programming/Scripting:

Conceptual knowledge of programming or scripting is recommended.

Security Concepts:

Understanding basic security concepts like malware, intrusion detection systems, firewalls, and vulnerabilities is important.

Course content

Module 1: Introduction to ICS/SCADA Network Defense Module 2: TCP/IP 101 Module 3: Introduction to Hacking Module 4: Vulnerability Management Module 5: Standards and Regulations for Cybersecurity Module 6: Securing the ICS network.

Module 7: Bridging the Air Gap

Module 8: Introduction to Intrusion Detection Systems (IDS) and Intrusion

Prevention Systems (IPS)

Exam Preference

Exam Code	ICS-SCADA
Number Of Questions	75
Length Of Test	120 Minutes
Passing Score	75%