



Consulting and Training | Reach New Heights

**Course Name**

# **Auditing Operational Technology / SCADA / ICS (Intermediate)**

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**Sector Name**

Audit, Risk and Governance

**Document Type**

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## Auditing Operational Technology / SCADA / ICS (Intermediate)

### Course Introduction

Operational Technology (OT), including Supervisory Control and Data Acquisition (SCADA) and Industrial Control Systems (ICS), forms the backbone of critical infrastructure and industrial operations across sectors such as energy, utilities, manufacturing, transportation, and oil and gas. As these systems become increasingly interconnected with IT environments and exposed to cyber and operational risks, organizations face heightened challenges in ensuring their reliability, security, and compliance.

To support effective assurance over these environments, **BOOST** has developed the Auditing Operational Technology / SCADA / ICS (Intermediate) course for audit, risk, and assurance professionals who already possess a foundational understanding of auditing or IT concepts and are required to assess OT environments. This intermediate-level program focuses on bridging the gap between traditional audit approaches and the unique characteristics, risks, and constraints of OT systems.

The course emphasizes how OT differs from IT in terms of architecture, priorities, risk tolerance, and control design. Participants explore how to plan and conduct effective OT audits without disrupting operations, while addressing cybersecurity risks,

safety considerations, regulatory expectations, and governance requirements.

Through structured explanations, practical frameworks, and industry-relevant scenarios, participants strengthen their ability to evaluate OT control environments, engage effectively with technical stakeholders, and provide meaningful assurance over critical industrial systems.

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## Auditing Operational Technology / SCADA / ICS (Intermediate)

### Target Audience

- ✓ Internal auditors and senior internal auditors
- ✓ IT auditors expanding into OT and industrial systems
- ✓ Risk management and governance professionals
- ✓ Cybersecurity and assurance professionals
- ✓ Compliance and internal control specialists
- ✓ Engineers or technical staff supporting audit and assurance activities
- ✓ Public and private sector professionals responsible for critical infrastructure oversight

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## Auditing Operational Technology / SCADA / ICS (Intermediate)

### Learning Objectives

- ✓ Understand the fundamentals of OT, SCADA, and ICS environments
- ✓ Distinguish between IT and OT risk, control, and audit considerations
- ✓ Identify key operational, safety, and cybersecurity risks in OT systems
- ✓ Apply audit planning approaches tailored to OT environments
- ✓ Evaluate governance, controls, and monitoring mechanisms for OT
- ✓ Assess cybersecurity and resilience controls in industrial systems
- ✓ Communicate audit findings effectively to technical and non-technical stakeholders
- ✓ Support risk-based assurance over critical infrastructure and operations

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## Auditing Operational Technology / SCADA / ICS (Intermediate)

### Course Outline

#### ✓ DAY 01

##### **Introduction to OT, SCADA, and ICS Environments**

- ✓ Overview of operational technology and industrial systems
- ✓ SCADA, DCS, PLCs, and field devices (conceptual overview)
- ✓ Differences between IT and OT environments
- ✓ Criticality of availability, safety, and reliability
- ✓ Common OT architectures and communication models
- ✓ Key challenges in auditing OT systems

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## Auditing Operational Technology / SCADA / ICS (Intermediate)

### Course Outline

#### ✓ Day 02

##### **OT Risks, Threats, and Governance**

- ✓ Operational, safety, and cyber risks in OT environments
- ✓ Threat landscape affecting SCADA and ICS
- ✓ IT-OT convergence and associated risks
- ✓ Governance structures for OT oversight
- ✓ Roles and responsibilities for OT risk management
- ✓ Regulatory and industry expectations (overview)

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## Auditing Operational Technology / SCADA / ICS (Intermediate)

### Course Outline

#### ✓ Day 03

##### **Planning and Executing OT Audits**

- ✓ Risk-based audit planning for OT environments
- ✓ Defining audit scope and objectives without disrupting operations
- ✓ Understanding asset inventories and critical processes
- ✓ Working with engineering and operations teams
- ✓ Audit evidence in OT environments
- ✓ Common pitfalls in OT auditing

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## Auditing Operational Technology / SCADA / ICS (Intermediate)

### Course Outline

#### ✓ Day 04

##### **Evaluating Controls and Cybersecurity in OT**

- ✓ Logical and physical access controls in OT systems
- ✓ Network segmentation and monitoring concepts
- ✓ Change management and configuration controls
- ✓ Incident detection and response in OT environments
- ✓ Backup, recovery, and resilience considerations
- ✓ Assessing control effectiveness and maturity

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## Auditing Operational Technology / SCADA / ICS (Intermediate)

### Course Outline

#### ✓ Day 05

##### **Reporting, Assurance, and Continuous Improvement**

- ✓ Communicating OT audit findings effectively
- ✓ Translating technical risks into business impact
- ✓ Prioritizing recommendations based on criticality
- ✓ Supporting remediation and management action plans
- ✓ Continuous assurance and monitoring concepts
- ✓ Integrating OT audit results into enterprise risk frameworks

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## Auditing Operational Technology / SCADA / ICS (Intermediate)

### Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 13, 2026	April 17, 2026	5 days	4250.00 \$	UAE , Abu Dhabi
July 13, 2026	July 17, 2026	5 days	4250.00 \$	UAE , Abu Dhabi
Oct. 12, 2026	Oct. 16, 2026	5 days	4250.00 \$	UAE , Abu Dhabi
March 15, 2027	March 19, 2027	5 days	4250.00 \$	UAE , Dubai

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