OT Fundamentals Masterclass

Equip your people with the knowledge to protect industrial operations

IFCR's OT Security Fundamentals masterclass introduces employees to the core principles of industrial control systems (ICS) - processes, architectures, communication protocols, and the unique risks that differ from traditional IT. The goal is to build a solid technical foundation that helps your organization strengthen the reliability, safety, and resilience of critical operations.

From governance topics of OT security to deep technical concepts - the masterclass will be of interest to engineers, architects, legal, compliance and CISOs to gain a better understanding of OT Security.

70%

According to a 2025 article, up to 70% of OT-related breaches involve "indirect losses" (e.g., production shutdowns, cascading effects)

For many teams, OT cybersecurity can feel complex and opaque. That's why our masterclass focuses on clear explanations of ICS components, threat vectors, attacker capabilities, and real-world incident patterns, ensuring that participants understand not only what can go wrong but why it happens and how to prevent it in practice. The masterclass has two options: 1 or 2 days depending on the targeted audience and goals.

Topics

Day 1: January 27th

- ICS basics: processes, control loops, PLCs, sensors, actuators.
- IT vs OT differences and ICS role in operations.
- ICS architecture and the Purdue model.
- Key components: HMIs, RTUs, SCADA, common vulnerabilities.
- Core protocols (Modbus, OPC-UA, DNP3) and relevance to NIS2.

Day 2: January 28th

- Hands-on ICS exploitation using the OT Hackbox.
- Deep dive into protocols, attack surfaces, and network traversal.
- Threat modelling and IEC 62443 application.
- Case studies: Stuxnet, TRITON.
- Map controls to real cyber-physical risks.

IFCR
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A BUREAU VERITAS COMPANY

This course is delivered over a total of two days, each tailored to distinct professional groups, you can either join day 1 and 2 or just day 1.

Day 1 is focusing on strategic, organisational, and governance-related aspects to OT.

Day 2 provides an extended, technically oriented program for those who want to expand their practical and operational understanding

Version	Remark	Recommended audience	Price, ex. VAT
2 days OT Fundamental Training **Date:** January 27th-28th **Time:** 9-16, incl. lunch	Includes both days – basis and technical concepts	Engineers, architects, cybersecurity experts	15.000 DKK
1 day OT Fundamental Training **Date:** January 27th **Time:** 9-16, incl. lunch	Agenda of day 1 – focus on the basis	CISOs, IT / OT managers, consultants, legal, compliance	9.000 DKK

Deadline for registration: Thursday the 15th of January 2026

This masterclass will take place at IFCR's Academy, Kongevejen 155, 2830 Virum

This masterclass is ideal if you'd like to share knowledge and exchange ideas with peers from the industry.

We also offer In-company master-class (at IFCR or your location)
Recommended if you have a larger internal group interested in cybersecurity and want to boost collaboration

Attention: The masterclass will be conducted in English

Limited spots available
Register today before your seat is taken

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