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INDUSTRIAL CONTROL SYSTEMS CYBERSECURITY DEFENSE MASTERCLASS

2ND & 5TH MARCH

7AM - 11AM GMT

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INSTRUCTOR

DAN EHRENREICH

SCADA+Cyber Defense Trainer and
Consultant at Secure Communications
and Control Experts (SCCE)

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Overview

This Masterclass focuses on the cyber security aspects of Industrial Control Systems (ICS), also known as Operation technology (OT) and Supervisory Control and Data Acquisition (SCADA), Building and Energy Management Systems (BEMS) and is aimed for organizations that design, deploy, operate and/or maintain industrial automation and control systems.

Information Technology (IT) systems are focusing on assurance of Confidentiality, Integrity and Availability (CIA), using a broad range of IT-type cyber defense measures such as antivirus, firewalls, demilitarized zone, unidirectional gateways, intrusion detection systems (IDS) and other. On the other hand, for OT type systems, the CIA factors are not the most important concern, as these systems must focus on assurance of Safety, Reliability and Productivity (SRP) of these facilities. Among Industrial control verticals are: Electricity production and distribution, Water distribution, Sewage treatment, Manufacturing, Building management, Smart cities and public safety, Communication networks, and more.

Why Attend?

The purpose of the Masterclass is to educate SCADA engineers on cyber risks and defense and also IT professionals to better understand the solutions which are needed for protecting ICS and SCADA systems.

Upon completion of this 8-hours Masterclass, the participants will acquire knowledge in the field of industrial systems' operation, cyber technologies and defense measures, understand the key concepts, attack vectors and defense processes and you will be best prepared the future challenges.

Value Pack

- Expert knowledge
- Educational content
- Full class materials
- Masterclass certificate

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Target Audience

This Masterclass is suitable and recommended for the following groups:

- People in charge of IT who need to know more on ICS SCADA risks and defense in order to assure better collaboration among these teams
- SCADA/ICS engineers involved with design, maintenance of industrial plants and manufacturing processes
- Operators dealing with control of renewable and other power technology plants, sewage plants, desalination and other chemical process plants
- Broad range of managers interested upgrading their technical knowledge in order to make correct and cost-effective investment decisions

After this cyber technology and defense Class related to Industrial cyber security, the participants will also be better prepared to apply for formal certification classes such as CISO, GIAC, CISSP and other as applicable for your business activity and the needs of your organization.

MASTERCLASS REGISTRATION

Full Class: \$300

Limited spots available!

Early Bird:

- **20% OFF:** First 5 registrants
- **10% OFF:** Second 5 registrants
- **5% OFF:** Third 5 registrants

For a group offer, email: editor@cyberinafrica.com

Masterclass One (2nd March | 4-hours)

Session-1: Introduction to ICS and Cyber Security

- Principal ICS Architecture and applications for SCADA-OT-IIoT
- Control processes, communications, protocols, installation, etc.
- Major Differences between ICS and IT operations
- Purdue Model and Triangle Model for Organization
- Step by step Process for attacking ICS operations
- Attacking processes on ICS : DDoS, APT, MitM, Zero-Day
- Explanation on Lockheed martin Cyber Kill Chain (CKC)
- Methodology for minimizing the Vulnerabilities in ICS operations

Masterclass Two (5th March | 4-hours)

Session-2: Cyber Security methodology for ICS

- Protecting the organization according to the PPT Triad
- Use of Firewalls, DMZ, Data Diodes and other measures
- ICS Cyber defense: IDS, SIEM, SOC, SOAR
- Protecting plants, buildings, data centers, computers, etc.
- Cyber security incidents on during the past decade
- Detailed explanation on BCP, DRP, IR, best Practices
- Review of specific ICS oriented standard ISA-IEC 62443
- Principles of Cyber secured project development

**LIMITED SPOTS
AVAILABLE !**

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Instructor Profile

Daniel Ehrenreich, B.Sc. Engineering, MBA, CISSP, ISO27001 Lead Auditor, SCCE- Secure Communications and Control Experts. Daniel brings over 29 years of experience with SCADA & ICS, deployed for electric power, water, sewage, oil and gas.

Since 2010 he has combined his engineering activity with cybersecurity and has consulted and delivered trainings in Israel and across the world. Previously he held senior positions in with leading firms in Israel such as Waterfall Security, Siemens and Motorola Solutions dealing with cyber defense for industrial operations.

Reselected as the Chairman for the 5th ICS Cybersec Conference (Virtual and International) taking place on 11-2-2021 in Israel.



For inquiries, contact:

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