

Au2mate Academy

BASIC INTRODUCTION TO CYBERSECURITY IT/OT

COURSE NO. 22: CYBERSECURITY - WHAT DO WE NEED TO PROTECT AND HOW?

PROGRAM - SHORT DESCRIPTION · DURATION: 1 DAY - 08:30-16:00

Target audience

This course is targeting decision makers, technical staff and anyone else who is interested in getting a basic understanding of Cybersecurity, particularly in Operational Technology (OT).

Prerequisites

No prior knowledge is required, but a basic understanding of Cybersecurity is an advantage.

Language

The course is conducted in Danish (English on request) - course material in English.

Short description

This course covers how frequency hacking and programming can be misused and which technologies can prevent hacking attacks. It also gives a thorough introduction to the terms and standards used in the Cybersecurity landscape. The course focus primarily on Operational Technology (OT).

There will be live demonstrations of advanced hacking during the course.

The course covers topics such as:

- Common threat actors in Cybersecurity
- Introduction to OT and Cybersecurity
- Introduction to frequency hacking incl. real life demos
- Introduction to hacking programming incl. real life demos
- Common Threats in OT Environments
- OT Cybersecurity Frameworks and Standards
- Best Practices for OT Cybersecurity
- Case Study: OT Cybersecurity Implementation
- Real world case: Attack against Danish critical infrastructure in May 2023

Objectives

Upon completion of this course the participants will have obtained:

- knowledge of the terms and standards used in the IT/OT Cybersecurity environment
- basic insights on how hackers works, and what tools they use
- an understanding of the many vulnerabilities in modern IT/OT systems and how to protect their critical infrastructure



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