

Learning Map-008

Plant Cybersecurity for CISOs



Intended Audience:

Anyone currently involved in cybersecurity including

1. CISOs and other Head Office Staff involved in Industrial Cybersecurity
2. Control Engineers
3. IT Specialists working on OT systems (involving ACS and IT)
4. Plant Personnel interested in Cybersecurity

Context and Objectives of this Learning Map

The Cybersecurity Information Security Officer (CISO) is a key player in establishing the company cybersecurity program. However, historically, this has been a “Head Office” role that focused primarily on IT cybersecurity. It is therefore essential that we assist CISOs to appreciate the differences and challenges that exist in the industrial facilities.

To do this, the following PERA materials were propose to start this process.

Recommended MLM’s for the Chief Information System Officer (CISO)

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For the purposes of this list, the CISO is defined¹ as a senior-level executive responsible for developing and implementing an information security program, which includes procedures and policies designed to protect enterprise communications, systems and assets from both internal and external threats. The CISO may also work alongside the chief information officer to procure cybersecurity products and services and to manage disaster recovery and business continuity plans².

1. Learning about the peculiar security concerns of an industrial environment

MLM-050-A ACS³ Cybersecurity for CISOs - Part 1

MLM-050-B ACS Cybersecurity for CISOs - Part 2

MLM-050-C ACS Cybersecurity for CISOs - Part 3

2. Learning about cyber-attacks on industrial environments as opposed to cyber-attacks on Enterprise/Office IT assets.

MLM-042-A Cyberattacks on Ukraine's Power Grid - Part 1

MLM-042-A Cyberattacks on Ukraine's Power Grid - Part 1

MLM-043-A Case Study: Cybersecurity Incident at a Water Utility⁴

3. The CISO's place and role in industrial operations

MLM-001-A Principal Roles and Professions in Cyber

Security MLM-013-A What is an Enterprise Cyber

Security Program

4. CISO's considerations when working in an industrial environment

MLM-026-A Patch Management

MLM-013-A What is an Enterprise Cyber Security

Program MLM-025-A OT vs IT Security Programs

5. Introduction to ISA/IEC 62443

MLM-010-A Purpose of the ISA/IEC 62443 Standard

MLM-010-B Structure of the ISA/IEC 62443 Standard

¹ Please note that the term CISO is interpreted differently in other countries like the US
https://csrc.nist.gov/glossary/term/chief_information_security_officer

² <https://searchsecurity.techtarget.com/definition/CISO-chief-information-security-officer>