CYBERIUM ARENA
— SIMULATOR —

SYLLABUS

INTRO TO ICS

MAIN FEATURES

Labs
The labs hold questions and tasks to support the training.

Book
The coursebooks accompany the lecturers and students alike in cybersecurity studies.

Scenarios
Provide participants possible situations from cybersecurity or cyberterrorism to solve.

Project
Trainees must complete a practical built-in project, produce defense and assault tools.

Description

The program was constructed primarily for the security industry and was meant to equip participants with an understanding of the ICS world. Energy companies, telecommunications, transportation, healthcare, and many other sectors are considered critical infrastructure for the state's continual maintenance. The ICS systems are considered the "weak link" in the defense chain for reasons you will discover throughout the training.

MODULES

Module 1: ICS Overview

IT vs. OT
Types of ICS Systems
DCS vs. SCADA
SCADA components
Human Machine Interface (HMI)
Supervisory System
Remote Terminal Units (RTUs)
Programmable Logic Controller (PLCs)

Module 2: ICS Protocols

ICS Network
Known ICS Protocols
Modbus
DNP3
ICS Network Analysis

Module 3: ICS Security

ICS Security Overview
Basic Security Concepts
Physical Security
Digital Security
ICS Lifecycle Challenges
Hands-On
Scanning Devices
Analyzing Network Attacks
Enumerating ICS Data
Tempering with Registers