



SCADA and Control Systems Cyber Security Training

Length – 2 days (15 hours)

Course Description

This 2 day course will introduce the audience to the basic concepts of cyber security and its impact to control systems and SCADA networks. The course is designed to introduce the student to emerging cyber security issues in industrial networks, as well as provide a baseline for understanding more advanced topics relating to mitigation and counter-attack. Upon completion of the course the student will have an excellent understanding of key cyber security in SCADA/control systems architectures, and will be able to apply knowledge to both proactive and reactive defensive strategies.

For security reasons, all students wishing to take this course will be required to undergo a background investigation. Course is limited to citizens of the United States and Canada. Contact Lofty Perch for more information on this training designed for law enforcement only (LEO).

Course Syllabus

Day 1 – Learning the system and its vulnerabilities

- Introduction to SCADA and control systems
- Convergence of control systems and modern networking
- Understanding risk within industrial networks
- Review of components and protocols (Modbus, DNP, E/IP)
- Security Implications (Threats, Vulnerabilities)
- Types of attacks (historical examples, discussion)
- Attacking SCADA: Analysis of attacks and attack vectors
- Analysis of common SCADA technology security pitfalls

Did you know?

Lofty Perch maintains its industry leadership by supporting the many leading organizations that are dedicated to protecting public safety and the nation's critical infrastructure.

As an example, Lofty Perch is working with the Idaho National Laboratory and the DHS Control Systems Security Program (CSSP) doing cyber security assessments, training, and developing recommended practices to industry.

Day 2 – Protecting the system

- Defense in Depth
- Cryptography and applicability to SCADA systems
- Firewalls, intrusion detection, intrusion prevention
- Security Information Management Systems (SIMS) and log correlation activities
- Wireless security and industrial networks
- SCADA honey nets and affiliated projects
- Operational Security (OPSEC) and Cultural activities
- Vulnerability testing of SCADA systems
- SCADA Forensics and incident response

For more detailed information on this or any other Lofty Perch training, including pricing and customization of content, please contact us at training@loftyperch.com

