

Incident Response and Management: 1st Responder's Workshop for Industrial Control Systems (ICS)

Respond
Service



DigitalDefence's 3-day workshop for First Responders is a hands-on look at how data security incidents are caused, how to recognize them, and how to resolve them with minimum financial loss and reputational damage.

Industrial control systems (ICS) is a term used to describe the networks, systems, devices, and controls that are used to automate industrial processes. Frequently, these processes form the foundation the critical infrastructure that is required for the effective operations of an entire country. Their importance cannot be denied; however, from an IT and incident response perspective, there are several unique challenges associated with ICS. Most importantly: physical management is as important as remote logical management, enterprise-wide collection of data is difficult, there is a lack of ICS-specific methodologies and tools, and remediation processes are very specific, and must not impact normal operations.

DigitalDefence's 1st Responder's Workshop for Industrial Control System addresses the unique elements of an ICS response, ensuring that industrial operations and critical infrastructure can withstand a cyber attack.

WHAT YOU WILL LEARN

- How to create an enterprise incident response strategy and plan in advance for a security incident, ensuring organizational readiness
- How to perform an effective incident response on ICS devices without compromising normal operations, and gather the information needed for both root-cause analysis to support legal action

**Reduce corporate risks
with focused incident
response training.**

Is the 1st Responder's Workshop right for your company?

- Do you need to reduce financial losses due to business downtime?
- Do you need to manage your liability and insurance costs?
- Are you prepared to recognize and respond to a data security breach?
- Should a breach occur, do you know who you have to notify, and when?
- Will your business survive and recover from a network attack?
- Are you meeting your regulatory requirements for incident response?



- Leveraging the most up-to-date investigative techniques and tools (commercial and open source / freeware)
- How to satisfy regulatory requirements under NERC CIP and DHS standards such as CFATS
- Become a DigitalDefence Certified Incident Responder (ICS) with access to pre- and post-course material, and the tools to stay current in this rapidly evolving field

COURSE OVERVIEW

- The threat and attack methodologies—attackers, methodologies, tools, and types of incidents specific to ICS environments and industrial and critical infrastructure organizations
- Legal and regulatory requirements— criminal and civil law, regulations, privacy law, mandatory breach reporting, cross-border security and privacy issues
- Agile Incident Management™ - the failure of “classical” incident response methodologies, Agile Incident Management, preparing for an incident, strategic and tactical approaches to incident response, integrating the response with operational management of ICS systems
- Documenting strategy to tactics—creating an enterprise incident response policy; creating and documenting standard operating procedures to guide a response; dealing with third parties (legal, law enforcement, cyberinsurance)
- Identifying a cyber incident—what to look for at the scene of the cybercrime, network and host attacks, conducting a rapid triage to determine attack activities and impact, rapid analysis of event logs, identifying Indicators of Attack
- Intelligence and threat handling—proactive versus reactive threat management, commercial and open source threat intelligence, risk assessments and threat modeling, effective asset identification, identifying and hunting for Indicators of Compromise
- Recognizing and responding to physical and social engineering attacks—psychology of social engineering attacks, attack methodologies, remote and on-site attacks, effective response, addressing social engineering in policy and security awareness training
- Network and host based attacks—recognizing attacks, effective responses to the most common attack types, identifying and responding to the insider threat, maintaining and restoring effective operations
- Rapid malware analysis—types of malware, methodology, creating a safe analysis environment, online analysis tools, static and dynamic analysis, analysis of malicious files (MS Office, PDF), analyzing system memory for malware and attack artifacts
- Acquisition and management of electronic evidence—legal considerations, gathering evidence from live and static systems, documentation for court

Who Should Attend

This workshop is intended for those who need to be proficient at recognizing and responding to data security incidents, and preserving and analyzing evidence (system and network administrators, database administrators, security and privacy specialists).

This course is also recommended for operators involved with securely designing, implementing, monitoring, or operating critical ICS systems.

This course is also pertinent for auditors, law enforcement and others who conduct investigations.

About DigitalDefence

DigitalDefence provides complete protection against data security breaches. We provide the advisory services that align security with your business strategy and practices. Our protection services secure your data by assessing vulnerabilities and validating security controls using audits and penetration testing, or “ethical hacking”. And should you suffer a security or privacy breach, we provide the 24x7 response services and expertise to minimize financial and reputational loss.



- Static data forensics—the forensic process, indexing, file carving, registry analysis, operating system and event logs, email and browser forensics (Windows and Unix-based systems)
- Live system and volatile data analysis—live system triage, RAM acquisition and analysis, extraction and analysis of the registry, key file extraction and analysis (Windows and Unixbased systems)
- Attack prevention—methodologies and tools (commercial, open source) to prevent or minimize attacks against networks containing ICS systems, mounting an “active” defence

The workshop can be delivered at your site, reducing travel costs, minimizing work disruptions, and creating a private atmosphere to discuss the security of your specific business.



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