



Global Industrial Cyber Security Professional Certification

Online Course

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Global Industrial Cyber Security Professional Certification

Course Modules

1. Hardening & Protecting Endpoints

How to implement endpoint security software along with hardening and patching, to secure the Windows and Unix style operating systems commonly found in an ICS environment.

2. ICS Components & Architecture

Categorize assets that comprise Purdue Reference Architecture levels zero through three and describe how they can be implemented in a securable architecture. Summarize the use of levels and zones in defining a secure ICS architecture, as well as the devices deployed at each level and zone.

3. ICS Overview & Concepts

Function of high-level ICS processes as well as ICS roles & responsibilities. Compare and contrast high-level differences between ICS and IT, including physical security considerations.

4. ICS Program & Policy Development

Steps and best practices used in building a security program and creating enforceable security policies for an ICS.



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5. Intelligence Gathering & Threat Modeling

Determine the threat landscape of an ICS and high-level concepts of threat modeling.

6. PERA Level 0 & 1 Technology Overview and Compromise

Describe level 0 and level 1 devices and technologies & summarize how those devices and technologies are targeted and attacked.

7. PERA Level 2 & 3 Technology Overview and Compromise

Describe level 2 and level 3 devices and technologies & summarize how those devices and technologies are targeted and attacked.

8. Protocols, Communications, & Compromises

Describe the basic structures, protocols, & defense of communications within an ICS and summarize how they can be compromised. This includes TCP/IP as well as ICS specific protocols. The candidate will also be able to, at a basic level, describe the cryptography used to protect communications.



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9. Risk Based Disaster Recovery & Incident Response

Describe how risk is measured and how it can be used to inform disaster recovery and incident response.

10. Wireless Technologies & Compromises

Summarize the different wireless communication technologies used in an ICS, how they are targeted, & how they can be defended.



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in terms of time management,
flexibility, and the ability
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