



**Information Systems Security
Engineering Professional**

Online Course

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Information Systems Security Engineering Professional

Course Modules

Systems Security Engineering Foundations

1. Apply systems security engineering fundamentals

- Understand systems security engineering trust concepts & hierarchies
- Identify the relationships between systems & security engineering
- Apply structural security design principles

2. Execute systems security engineering processes

- Identify organizational security authority
- Identify system security policy elements
- Integrate design concepts (e.g., open, proprietary, modular)

3. Integrate with applicable system development methodology

- Integrate security tasks and activities
- Verify security requirements throughout the process
- Integrate software assurance methods



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4. Perform technical management

- Perform project planning processes
- Perform project assessment and control processes
- Perform decision management processes
- Perform risk management processes
- Perform configuration management processes
- Perform information management processes
- Perform measurement processes
- Perform Quality Assurance (QA) processes
- Identify opportunities for security process automation

5. Participate in the acquisition process

- Prepare security requirements for acquisitions
- Participate in selection process
- Participate in Supply Chain Risk Management (SCRM)
- Participate in the development and review of contractual doc

Risk Management

6. Apply security risk management principles

- Align security risk management with Enterprise Risk Management
- Integrate risk management throughout the lifecycle



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7. Address risk to system

- Establish risk context
- Identify system security risks
- Perform risk analysis
- Perform risk evaluation
- Recommend risk treatment options
- Document risk findings and decisions

8. Manage risk to operations

- Determine stakeholder risk tolerance
- Identify remediation needs and other system changes
- Determine risk treatment options
- Assess proposed risk treatment options
- Recommend risk treatment options

Security Planning and Design

9. Analyze organizational and operational environment

- Capture stakeholder requirements
- Identify relevant constraints and assumptions
- Assess and document threats
- Determine system protection needs
- Develop Security Test Plans (STP)



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10. Apply system security principles

- Incorporate resiliency methods to address threats
- Apply defense-in-depth concepts
- Identify fail-safe defaults
- Reduce Single Points of Failure (SPOF)
- Incorporate least privilege concept
- Understand economy of mechanism
- Understand Separation of Duties (SoD) concept

11. Develop system requirements

- Develop system security context
- Identify functions within the system & security Concept of Oprtns
- Document system security requirements baseline
- Analyze system security requirements

12. Create system security architecture and design

- Develop functional analysis and allocation
- Maintain traceability betwn specified design and system requirmts
- Develop system security design components
- Perform trade-off studies
- Assess protection effectiveness



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Systems Implementation, Verification and Validation

13. Implement, integrate and deploy security solutions

- Perform system security implementation and integration
- Perform system security deployment activities

14. Verify and validate security solutions

- Perform system security verification
- Perform security validation to demonstrate security controls



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