

# Information Systems Security Engineering Professional (ISSEP)

**Duration: 5 Days**

## Course Description:

The Information Systems Security Engineering Professional (ISSEP) is a security leader who specializes in the practical application of systems engineering principles and processes to develop secure systems. An ISSEP analyzes organizational needs, defines security requirements, designs security architectures, develops secure designs, implements system security, and supports system security assessment and authorization for government and industry.

## Target Audience:

The ISSEP is ideal for those working in roles such as:

- Senior Systems Engineer
- Information Assurance Systems Engineer
- Information Assurance Officer
- Information Assurance Analyst
- Senior Security Analyst

## Prerequisites:

- Candidates must be a CISSP in good standing and have two years' cumulative, full-time experience in one or more of the five domains of the current ISSEP outline.
- Candidates must have a minimum of seven years' cumulative, full-time experience in two or more of the domains of the current ISSEP outline.
- Earning a post-secondary degree (bachelor's or master's) in computer science, information technology (IT) or related fields or an additional credential from the ISC2 approved list may satisfy one year of the required experience.
- Part-time work and internships may also count towards the experience requirement.

## Course Outlines:

### Domain 1: Systems Security Engineering Foundations

- Apply systems security engineering fundamentals
- Execute systems security engineering processes (e.g., hardware, software, data)
- Integrate with system development methodology
- Perform technical management
- Participate in the technology procurement management
- Resource Analysis (e.g., Cost estimation, personnel costs, probabilities and statistics (Monte Carlo))

### Domain 2: Risk Management

- Apply security risk management principles
- Manage risk to system
- Manage risk to operations

### Domain 3: Security Planning and Engineering

- Analyze organizational and operational environment
- Apply system security principles
- Develop system requirements
- Create system security design

### Domain 4: Systems Security Implementation, Verification and Validation

- Implement and integrate security solutions
- Verify successful implementation

### Domain 5: Secure Operations, Change Management and Disposal

- Develop secure operations plan
- Support secure operations
- Participate in change management
- Participate in the disposal process

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