Information Systems Security Engineering Professional (ISSEP)

Length: 5 Days

Summary: The Information Systems Security Engineering Professional (ISSEP) is a CISSP 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.

The broad spectrum of topics included in the ISSEP Common Body of Knowledge (CBK®) ensure its relevancy across all disciplines in the field of security engineering. Successful candidates are competent in the following five domains:

- Systems Security Engineering Foundations
- Risk Management
- Security Planning and Design
- Systems Implementation, Verification and Validation
- Secure Operations, Change Management and Disposal

Experience Requirements: Candidates must be a CISSP in good standing and have two years' cumulative paid work experience in one or more of the five domains of the CISSP-ISSEP CBK.

COURSE CONTENT

DOMAIN 1: SYSTEMS SECURITY ENGINEERING FOUNDATIONS

1.1 Apply Systems Security Engineering Fundamentals
1.2 Execute systems security engineering processes
1.3 Integrate with applicable system development methodology
1.4 Perform technical management
1.5 Participate in the acquisition process
1.6 Design Trusted Systems and Networks (TSN)

DOMAIN 2: RISK MANAGEMENT

2.1 Apply Security Risk Management Principles
2.2 Address Risk to System
2.3 Manage Risk to Operations

DOMAIN 3: SECURITY PLANNING AND DESIGN

3.1 Analyze Organizational and operational environment
3.2 Apply System Security principles
3.3 Develop System Requirements
3.4 Create System Security Architecture and Design

DOMAIN 4: SYSTEMS IMPLEMENTATION, VERIFICIATION AND VALIDATION

4.1 Implement, Integrate and deploy Security Solution's
4.2 Verify and Validate security solutions

DOMAIN 5: SECURE OPERATIONS, CHANGE MANAGEMENT AND DISPOSAL

5.1 Develop Secure Operations Strategy
5.2 Participate in Secure Operations
5.3 Participate in Change Management
5.4 Participate in the disposal process