Course Outline

Domain 1: Security and Risk Management

Lesson A: Security Governance Principles

Lesson B: Security Roles & Responsibilities

Lesson B: Protection Mechanism

Lesson C: Risk Management

Lesson D: Threat Modeling

Lesson E: Laws

Lesson F: Intellectual property

Lesson G: Business Continuity Plan Fundamentals

Lesson H: Personnel Security Policies

Lesson I: Security Awareness and Training

Domain 2: Asset Security

Lesson A: Asset Classification

Lesson B: Identify data roles

Lesson C: Privacy Protection

Lesson D: Asset Retention

Lesson E: Data Security Controls

Lesson F: Secure Data Handling

Domain 3: Security Architecture and Engineering

Lesson A: Security in the Engineering Lifecycle

Lesson B: System Component Security

Lesson C: Security Models, Design, Architecture

Lesson D: Information System Security Capabilities

Lesson E: Design and Architecture Vulnerability Mitigation

Lesson F: Cryptography Concepts

Lesson G: Cryptography Techniques

Lesson H: Applied Cryptography

Lesson I: Site and Facility Design for Physical Security

Lesson J: Physical Security Implementation in Sites and Facilities

Domain 4: Communication and Network Security

Lesson A: Network Protocol & Layer

Lesson B: Network Components Security

Lesson C: Communication Channel Security

Lesson D: Network Attack & Mitigation

Domain 5: Identity and Access Management

Lesson A: Identification, Authentication, and Authorization

Lesson B: Physical and Logical Access Control

Lesson C: Identity as a Service

Lesson D: Authorization Mechanisms

Lesson E: Access Control Attack Mitigation

Domain 6: Security Assessment and Testing

Lesson A: System Security Control Testing

Lesson B: Software Security Control Testing

Lesson C: Security Process Data Collection

Lesson D: Audits

Domain 7: Security Operations

Lesson A: Security Operations Concepts

Lesson B: Physical Security

Lesson C: Personnel Security

Lesson D: Logging and Monitoring

Lesson E: Preventative Measures

Lesson F: Resource Provisioning and Protection

Lesson G: Patch and Vulnerability Management

Lesson H: Change Management

Lesson I: Incident Response

Lesson J: Investigations

Lesson K: Disaster Recovery Planning

Lesson L: Disaster Recovery Strategies

Lesson M: Disaster Recovery Implementation

Domain 8: Software Development Security

Lesson A: Security Principles in the System Lifecycle

Lesson B: Security Principles in the Software Development Lifecycle

Lesson C: Database Security in Software Development

Lesson D: Security Controls in the Development Environment

Lesson E: Software Security Effectiveness Assessment