CSP101 – SECURE SOFTWARE CONCEPTS

Course Learning Objectives

Define the concepts of secure software and how it applies to the design. Identify and apply information system security concepts to the development of software. Identify design aspects needed in order to develop hack-resilient software. Describe the regulatory, privacy, compliance, risk, and governance requirements for software development, and the effects of noncompliance. Describe development methodologies for the development of software.

Description

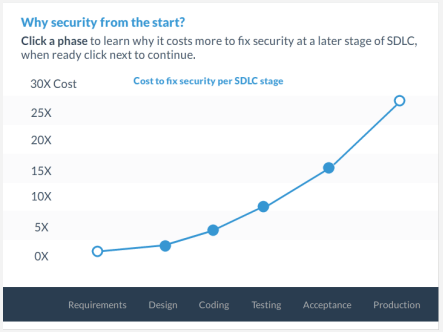
The goal of the Security Software Concepts module is to provide the learner with concepts related to the core software security requirements and foundational design principles as they relate to issues of privacy, governance, risk and compliance. Learners will understand the software methodologies needed in order to develop software that is secure and resilient to attacks.

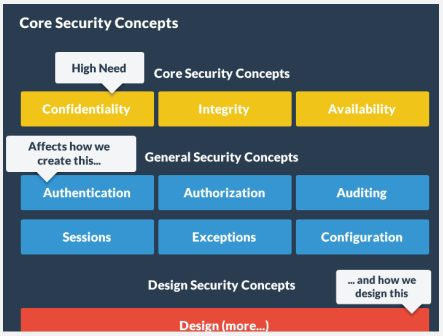
Audience

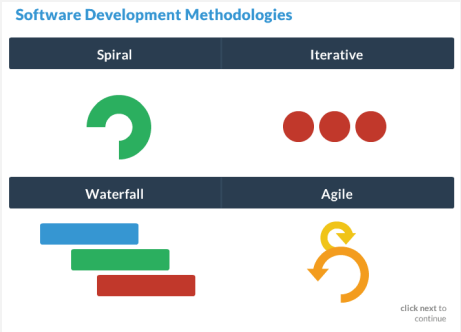
Certified Secure Software Lifecycle Professional (CSSLP)

Time Required

Tailored learning - 60 minutes total







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Course Outline

1. Concepts of Secure Software

- About
- Holistic security
- Attacking vs. Defending
- Project management concerns
- Why security from the start?
- Usability vs. Security
- Core security concepts
- Confidentiality
- Integrity
- Availability

2. Security Design

- Principles of security design
- General Security principles
- Design security principles

3. Privacy

- About data privacy
- Data collection
- Best practices
- Data anonymization
- Data disposition

4. Governance, Risk and Compliance

- About regulations
- Understanding regulations
- Key regulations
- Overview of regulations
- Regulatory challenges
- Organizational standards
- Internal standards
- External standards
- About risk management
- Threats, assets and vulnerability
- Attack, likelihood and impacts
- Factoring risk
- Residual risk
- Business vs. technical risks
- Strategies to handling risk

5. Methodologies of Software Development

- Software development methodologies
- Waterfall
- Agile
- Spiral
- Iterative
- Common security methodologies

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