

CSP102 – SECURE SOFTWARE REQUIREMENTS

Course Learning Objectives

Identify the process for breaking down internal and external policies in order to develop software that meets stakeholder requirements. Describe data classification as mechanism to produce software security requirements from functional business requirements. Identify the different types of security requirements for software. Develop misuse and abuse cases in order to define functional security requirements. Describe the operational level secure software requirements.

Description

The goal of the Security Software Requirements domain is to provide the learner with concepts related to understanding the importance of identifying and developing software with secure requirements. The learner will be able to incorporate security requirements in the development of software in order to produce software that is reliable, resilient, and recoverable.

Audience



Certified Secure Software Lifecycle Professional (CSSLP)

Time Required



Tailored learning - 50 minutes total

Labeling
Sensitivity is assigned to data. The labels assigned can be unique but typically are known as high, medium and low sensitivity.

JARS \$14.99
Your order:
- 1x string jar lamps
Total: \$14.99

James Pierre
155 ADELAIDE ST.
TORONTO ONTARIO

ORDER

Security problems arise

Audit outcome from BETA

- Transmits data via SSL
- Card details stored on device
- Card security code stored unencrypted

mTunes
Payment Details

VISA

Card Number
Month Year

Next

Policy	Objective 1	Objective 2	Objective 3
Confidentiality Data should be securely protected.	DATAPROT1 Data should be classified based on sensitivity. CONFIG1 Production data should not be used as test data.	DATAPROT2 Encrypt sensitive data using 256-bit AES and PKCS12. DATAPROT2 Ensure transport layers are secured with >128-bit SSL. CONFIG2 Use RBAC to ensure testers cannot access production data. CONFIG2 Review audit logs on a monthly basis to confirm access rights.	

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Course Outline

1. Policy Decomposition

- About
- Building secure software
- Software design and development process
- Security problems arise
- Cost to fix security
- Sources for security requirements
- Where do security requirements come from?
- Types of security requirements
- Protection needs elicitation
- PNE techniques

2. Classification and Categorization

- Data sensitivity
- Types of data
- Data ownership
- Labeling
- Business software objective
- Classify
- Data lifecycle management

3. Functional Requirements

- Introducing use cases
- Introducing abuse cases
- Components of functional requirements
- Use case diagrams
- Subject object matrix
- Sequence diagrams

4. Operational Security Requirements

- About
- Functional vs. operational security requirements
- Need for operational requirements
- Sources for operational requirements
- Operational context diagram
- Where do we host our software?
- Deployment security requirements
- Mismatched requirements
- Asking deployment questions
- Choosing a deployment environment
- Management security requirements