

Secure Java Development Essentials

The Secure Java Development Essentials (SJD-100) course equips developers with the foundational skills necessary to write secure Java applications. Java remains one of the most widely used programming languages for enterprise applications, making it a prime target for security threats. This course focuses on best practices for mitigating common security risks, ensuring that developers can build robust and resilient software. By the end of the course, learners will have a comprehensive understanding of secure coding principles and the ability to apply them in real-world development scenarios.

Secure Coding Principles	Explore the fundamental principles of secure coding to minimize vulnerabilities and create resilient Java applications
Error Handling and Logging with Java	Learn how to effectively manage errors and implement secure logging practices to protect sensitive information
Input Validation with Java	Master techniques to validate user inputs, safeguarding your applications against malicious data
Output Encoding with Java	Understand how to securely encode output to prevent injection attacks and maintain application integrity
HTTP Cookie Security with Java	Discover best practices for managing HTTP cookies securely to protect user sessions and sensitive data
Security Misconfigurations with Java	Learn how to identify and address common security misconfigurations to strengthen application defenses
Web Session Management with Java	Develop secure session management techniques to protect against unauthorized access and session hijacking
Using Databases with Java	Explore secure methods for database interactions, ensuring the confidentiality and integrity of stored data
Assembling the Pieces: Java Security Essentials	Apply your knowledge in this capstone module, integrating secure coding practices to build robust Java applications