

CertNexus Certified Cyber Secure Coder (CSC-210)

Overview

The stakes for software security are very high, and yet many development teams deal with software security only after the code has been developed and the software is being prepared for delivery. As with any aspect of software quality, to ensure successful implementation, security and privacy issues should be managed throughout the entire software development lifecycle. This course presents an approach for dealing with security and privacy throughout the entire software development lifecycle. You will learn about vulnerabilities that undermine security, and how to identify and remediate them in your own projects. You will learn general strategies for dealing with security defects and misconfiguration, how to design software to deal with the human element in security, and how to incorporate security into all phases of development.

Prerequisite Comments

This course presents secure programming concepts that apply to many different types of software development projects. Although this course uses Python®, HTML, and JavaScript® to demonstrate various programming concepts, you do not need to have experience in these languages to benefit from this course. However, you should have some programming experience, whether it be developing desktop, mobile, web, or cloud applications. Logical Operations provides a variety of courses covering software development that you might use to prepare for this course, such as:

Python® Programming: Introduction

Python® Programming: Advanced

HTML5: Content Authoring with New and Advanced Features

SQL Querying: Fundamentals (Second Edition)

Target Audience

This course is designed for software developers, testers, and architects who design and develop software in various programming languages and platforms, including desktop, web, cloud, and mobile, and who want to improve their ability to deliver software that is of high quality, particularly regarding security and privacy.

This course is also designed for students who are seeking the CertNexus Cyber Secure Coder (CSC) Exam CSC-210 certification

Course Objectives

[Register Online](#)

Schedule

Class Length: 3 Days

G2R = "Guaranteed to Run" | OLL = "Online LIVE"
ILT = "Instructor-Led-Training"

This course is not currently available on the public schedule. Please contact us using the information in the footer below to inquire about future dates or to schedule a private class.

In this course, you will employ best practices in software development to develop secure software. You will:

- Identify the need for security in your software projects.
- Eliminate vulnerabilities within software.
- Use a Security by Design approach to design a secure architecture for your software.
- Implement common protections to protect users and data.
- Apply various testing methods to find and correct security defects in your software.
- Maintain deployed software to ensure ongoing security...

Course Outline

1 - Identifying the Need for Security in Your Software Projects

- Identify Security Requirements and Expectations
- Identify Factors That Undermine Software Security
- Find Vulnerabilities in Your Software
- Gather Intelligence on Vulnerabilities and Exploits

2 - Handling Vulnerabilities

- Handle Vulnerabilities Due to Software Defects and Misconfiguration
- Handle Vulnerabilities Due to Human Factors
- Handle Vulnerabilities Due to Process Shortcomings

3 - Designing for Security

- Apply General Principles for Secure Design
- Design Software to Counter Specific Threats

4 - Developing Secure Code

- Follow Best Practices for Secure Coding
- Prevent Platform Vulnerabilities
- Prevent Privacy Vulnerabilities

5 - Implementing Common Protections

- Limit Access Using Login and User Roles
- Protect Data in Transit and At Rest
- Implement Error Handling and Logging
- Protect Sensitive Data and Functions
- Protect Database Access

6 - Testing Software Security

Perform Security Testing
Analyze Code to find Security Problems
Use Automated Testing Tools to Find Security Problems

7 - Maintaining Security in Deployed Software

Monitor and Log Applications to Support Security
Maintain Security after Deployment
