



Certified IoT Security Practitioner (CIoTSP)

Course ID #: 7000-325-ZZ-Z

Hours: 21

Course Content

Course Description:

In this course, you will cover IoT security concepts while providing ample opportunities to practice the required skills of an IoT security professional. This course is designed for practitioners who are seeking to demonstrate a vendor-neutral, cross-industry skill set that will enable them to design, implement, operate, and/or manage a secure IoT ecosystem.

Prerequisites:

It is recommended that you should have a fundamental understanding of IoT ecosystems, which you can obtain by taking the following CertNexus course: Certified Internet of Things (IoT) Practitioner (Exam ITP-110).

Target Audience:

This course is designed for IoT practitioners who are looking to improve their skills and knowledge of IoT security and privacy. This course is also designed for students who are seeking the CertNexus Certified Internet of Things Security Practitioner (CIoTSP) certification and who want to prepare for Exam ITS-110.

Topics:

Lesson 1: Managing IoT Risks

- Map the IoT Attack Surface
- Build in Security by Design

Lesson 2: Securing Web and Cloud Interfaces

- Identify Threats to IoT Web and Cloud Interfaces
- Prevent Injection Flaws
- Prevent Session Management Flaws
- Prevent Cross-Site Scripting Flaws
- Prevent Cross-Site Request Forgery Flaws
- Prevent Unvalidated Redirects and Forwards

Lesson 3: Securing Data

- Use Cryptography Appropriately
- Protect Data in Motion
- Protect Data at Rest
- Protect Data in Use

Lesson 4: Controlling Access to IoT Resources

- Identify the Need to Protect IoT Resources
- Implement Secure Authentication
- Implement Secure Authorization
- Implement Security Monitoring on IoT Systems

Lesson 5: Securing IoT Networks

- Ensure the Security of IP Networks
- Ensure the Security of Wireless Networks
- Ensure the Security of Mobile Networks
- Ensure the Security of IoT Edge Networks

Lesson 6: Ensuring Privacy

- Improve Data Collection to Reduce Privacy Concerns
- Protect Sensitive Data
- Dispose of Sensitive Data



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Lesson 7: Managing Software and Firmware

Risks

- Manage General Software Risks
- Manage Risks Related to Software Installation and Configuration
- Manage Risks Related to Software Patches and Updates
- Manage Risks Related to IoT Device Operating Systems and Firmware

Lesson 8: Promoting Physical Security

- Protect Local Memory and Storage
- Prevent Physical Port Access

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