

Certified Internet of Things (IoT) Security Practitioner

Course Overview

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This is a 3-day class

This certification exam is designed for network security engineers and analysts who are tasked with designing secure network environments, implementing security policies and protocols related to IoT devices, and analyzing network systems for operational and security considerations, in addition to the security operations center (SOC) analysts who analyze and respond to security incidents, and develop organizational response processes. It is also beneficial to solutions architects, developers, and testers who design, develop, and test software solutions for their organizations. This certification is also relevant to operations engineers who deploy and maintain embedded and mission critical systems and perform organizational gap analysis.

Course Objectives

This program will validate that the candidate has the knowledge, skills, and abilities to secure network environments for IoT devices, analyze vulnerabilities and determine reasonable controls against threats, and effectively monitor IoT devices and respond to incidents.

Course Outline

1 NETWORK ARCHITECTURE

Analyze and validate designs for secure networks that support IoT devices.

Build and implement network technologies based on a given design.

2 MONITORING

Perform monitoring of network traffic related to IoT devices.

Perform monitoring of IoT endpoint devices.

Understand common methods of log collection, and security event information.

3 RISK MANAGEMENT

Compare and contrast various threats and classify threat profiles.

Analyze and identify IoT-specific vulnerabilities given a particular risk scenario, determine the best controls to mitigate or minimize risk.

4 MITIGATION

Identify and categorize common control types. Implement industry-standard security controls.

Demonstrate an understanding of common IoT-related secure design considerations.

Configure appropriate user access controls for IoT devices.