

Certified Internet of Things (IoT) Security Practitioner (Exam ITS-110) 3 Days

1. PROGRAMME OVERVIEW

The **Internet of Things (IoT)** is a system of interrelated computing devices, mechanical and digital machines, objects, animals or people that are provided with unique identifiers (UIDs) and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction.

The Certified IoT Security Practitioner (ClosTSP) is designed to upskill IT professionals who wants to design, implement, operate, and/or manage a secure IoT ecosystem.

2. PREREQUISITES

Fundamental understanding of IoT Ecosystems this can be obtained through the Certified Internet of things (IoT) Practitioner

3. PROGRAMME OUTLINES

Module 1: Managing IoT Risks

Map the IoT Attack Surface
Design for Security

Module 2: Securing Web and Cloud Interfaces

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

Module 3: Managing Access to IoT Resources

Identify the Need to Protect IoT Resources
Implement Secure Authentication
Implement Secure Authorization
Implement Secure Accounting

Module 4: Securing Data

Protect Data in Motion
Protect Data at Rest
Protect Data in Use

Module 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

Module 6: Ensuring Privacy

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

Module 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 Operating Systems and Firmware

Module 8: Promoting Physical Security

Protect Local Memory and Storage
Protect Shell Access

4. PROGRAMME METHODOLOGY

The programme is instructor led by an industry specialist. The programme is practical in nature and delegates will learn by given scenarios/case studies.