

CertNexus Certified Internet of Things Security

Practitioner CIoTSP Course

Course Duration: 24 Hrs.

Course Code: ITS-110

Course Overview

The **CertNexus Certified Internet of Things Security Practitioner (CIoTSP)** course is designed to provide professionals with a comprehensive understanding of security risks, threats, and best practices specific to Internet of Things (IoT) environments. This course focuses on securing IoT devices, networks, data, and platforms throughout the IoT lifecycle. Participants will gain practical knowledge to assess IoT security posture, implement risk mitigation strategies, and support secure IoT deployments while preparing for the CertNexus CIoTSP certification exam.

What You'll Learn?

By completing this course, you will be able to:

- Understand IoT architectures and security challenges
- Identify threats and vulnerabilities in IoT ecosystems
- Apply security controls to IoT devices and networks
- Secure IoT data, communication, and platforms
- Assess and manage IoT security risks
- Understand regulatory and compliance considerations
- Prepare confidently for the CertNexus CIoTSP certification exam

Target Audience

This course is ideal for:

- IoT Security Professionals
- Network and Security Engineers
- System Administrators and Architects
- IoT Developers and Solution Designers
- Professionals seeking IoT security certification

Pre-Requisites

Participants should have:

- Basic understanding of networking and security concepts
- Familiarity with IoT fundamentals and architectures
- Knowledge of IT infrastructure and systems
- Interest in IoT security and risk management

Course Content

Module 1: Introduction to IoT Security

- Overview of IoT ecosystems
- IoT security challenges and risks
- Threat landscape for IoT

Module 2: IoT Architecture and Attack Surfaces

- Device, network, and platform components
- Identifying IoT attack vectors
- Security considerations across the IoT lifecycle

Module 3: Securing IoT Devices and Networks

- Device authentication and identity management

- Network segmentation and secure communication
- Firmware and update security

Module 4: Data, Cloud, and Platform Security

- Securing IoT data at rest and in transit
- Cloud and edge security considerations
- Monitoring and logging IoT environments

Module 5: Risk Management, Compliance, and Governance

- IoT risk assessment techniques
- Regulatory and compliance requirements
- Privacy and data protection

Module 6: Incident Response and Exam Preparation

- Responding to IoT security incidents
- Incident handling and recovery
- Certification exam overview and preparation tips