Certified Internet of Things Security Practitioner (CIoTSP)

Category: Networking & Security | **Vendor:** CertNexus

Duration: 24.00 hours (3 days) **19.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format:	Instructor Led - Online
Certification:	Certified Internet of Things Security Practitioner (CIoTSP)
Related Exam:	CIoTSP-110

Course Overview

The Internet of Things (IoT) enables data to be collected and analyzed on a massive scale, enabling well-informed decisions to be made quickly. However, the deluge of data handled by IoT systems is often acquired, processed, and presented using new technologies that are rapidly evolving and in some cases being rushed to market, creating new concerns for data privacy and cybersecurity. Securing IoT systems can be a complicated proposition, involving hazards that many IT workers have never had to deal with. Solutions may involve resource-constrained IoT devices and technologies from many different vendors. IoT devices may be installed in vulnerable locations, and new network devices and protocols add complexity to the overall network architecture.

About This Course

The Internet of Things (IoT) enables data to be collected and analyzed on a massive scale, enabling well-informed decisions to be made quickly. However, the deluge of data handled by IoT systems is often acquired, processed, and presented using new technologies that are rapidly evolving and in some cases being rushed to market, creating new concerns for data privacy and cybersecurity. Securing IoT systems can be a complicated proposition, involving hazards that many IT workers have never had to deal with. Solutions may involve resource-constrained IoT devices and technologies from many different vendors. IoT devices may be installed in vulnerable locations, and new network devices and protocols add complexity to the overall network architecture.

Who Should Attend

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 Certified Internet of Things Security Practitioner (CIoTSP) certification and who want to prepare for Exam ITS-110.

Prerequisites & Entry Requirements

General Prerequisites:

- Certified Internet of Things (IoT) Practitioner

Learning Outcomes

Upon successful completion of this course, participants will be able to:

This course presents an approach for managing the security and data privacy of IoT throughout the entire lifecycle. Through a combination of hands-on activities and case studies, you will learn how to identify and remediate vulnerabilities that undermine IoT security, as well as strategies for managing risk, securing data throughout its entire lifecycle, protecting data privacy, ensuring that IoT resources can be accessed only by authorized users, managing risks related to device firmware and software, and protecting IoT devices from direct physical and network access.

Detailed Course Outline

1 - Managing IoT Risks

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

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

3 - Securing Data

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

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

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

6 - Ensuring Privacy

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

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

8 - Promoting Physical Security

- Protect Local Memory and Storage
- Prevent Physical Port Access

Certification Path

Certified Internet of Things Security Practitioner (CIoTSP)

Exam: CIoTSP-110

Frequently Asked Questions

Q: What delivery options are available for Certified Internet of Things Security Practitioner (CIoTSP)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: What certification does this course prepare me for?

The Certified Internet of Things Security Practitioner (CIoTSP) course helps prepare you for the Certified Internet of Things Security Practitioner (CIoTSP) certification path.

Q: Which exam does this course prepare me for?

This course prepares you for the CIoTSP-110 official exam. You can take this exam at any exam center across United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online wherever you are located.

Q: How many CPD hours does this course provide?

The 3-day Certified Internet of Things Security Practitioner (CIoTSP) course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Certified Internet of Things Security Practitioner (CIoTSP) training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Certified Internet of Things Security Practitioner (CIoTSP)?

Yes, we provide corporate training, dedicated training, and closed classes for Certified Internet of Things Security Practitioner (CIoTSP). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for Certified Internet of Things Security Practitioner (CIoTSP)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Certified Internet of Things Security Practitioner (CIoTSP) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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