Certified Internet of Things (IoT) Practitioner (CIoTP)

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 Practitioner (CIoTP)
Related Exam:	ITP-110

Course Overview

In this course, students will learn general strategies for planning, designing, developing, implementing, and maintaining an IoT system through various case studies and by assembling and configuring an IoT device to work in a sensor network. Students will create an IoT device based on an ESP8266 microcontroller, implementing various common IoT features, such as analog and digital sensors, a web-based interface, MQTT messaging, and data encryption. This course prepares students for taking the CertNexus Certified Internet of Things (IoT) Practitioner (Exam ITP-110). This course includes an exam voucher.

About This Course

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Who Should Attend

This course is designed for IT professionals with baseline skills in computer hardware, software support, and development who want to learn how to design, develop, implement, operate, and manage Internet of Things devices and related systems. It is for those interested in learning more about embedded systems, microcontroller programming, IoT security, and the development life cycle for IoT projects. While students will gain hands-on experience assembling a prototype IoT device and using software development tools, these activities are closely guided, so previous experience in electronics assembly and programming are not required.

Prerequisites & Entry Requirements

General Prerequisites:

To earn CRISC certification, you must pass the CRISC exam and show three years experience in the fields of risk management and IS control, per ISACA's requirements.

Learning Outcomes

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

In this course, you will learn how to apply Internet of Things technologies to solve real-world problems. You will: Construct and program an IoT device. Communicate with an IoT device using wired and wireless connections. Process sensor input and control an actuator on an IoT device. Manage security, privacy, and safety risks on IoT projects. Plan an IoT prototyping and development project.

Detailed Course Outline

1 - PLANNING AN IOT IMPLEMENTATION

- Select a General Architecture for an IoT Project
- Identify Benefits and Challenges of IoT

2 - CONSTRUCTING AND PROGRAMMING AN IOT DEVICE

- Select and Configure a Processing Unit
- Select a Microcontroller Power Source
- Use a Software Development Kit to Program an IoT Device

3 - COMMUNICATING WITH AN IOT DEVICE

- Communicate Using Wired Connections
- Communicate Using Wireless Connections
- Communicate Using Internet Protocols

4 - PROCESSING IOT DATA

- Process IoT Device Input and Output
- Process Data in the Cloud
- Provide Machine to Machine Communication

5 - MANAGING RISKS ON IOT PROJECTS

- Identify IoT Security and Privacy Risks
- Manage IoT Security and Privacy Risks
- Manage IoT Safety Risks

6 - UNDERTAKING AN IOT PROJECT

- Identify Real World Applications for IoT
- Follow the IoT Development Lifecycle

📜 Certification Path

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Exam: ITP-110

Frequently Asked Questions

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

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 (IoT) Practitioner (CIoTP) course helps prepare you for the Certified Internet of Things Practitioner (CIoTP) certification path.

Q: Which exam does this course prepare me for?

This course prepares you for the ITP-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 (IoT) Practitioner (CIoTP) 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 (IoT) Practitioner (CIoTP) 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 (IoT) Practitioner (CIoTP)?

Yes, we provide corporate training, dedicated training, and closed classes for Certified Internet of Things (IoT) Practitioner (CIoTP). 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 (IoT) Practitioner (CIoTP)?

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 (IoT) Practitioner (CIoTP) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

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