

# CertNexus Certified Internet of Things Practitioner

## CloTP Course

**Course Duration: 40 Hrs.**

**Course Code: ITP-110**

### Course Overview

The **CertNexus Certified Internet of Things Practitioner (CloTP)** course is designed to provide a vendor-neutral foundation in Internet of Things (IoT) concepts, architectures, and real-world applications. This course focuses on understanding IoT components, connectivity models, data flows, and security considerations. Participants will learn how IoT solutions are designed, deployed, and managed across industries while preparing for the CertNexus CloTP certification exam.

### What You'll Learn?

By completing this course, you will be able to:

- Understand IoT concepts, terminology, and ecosystems
- Identify IoT components, devices, and architectures
- Explain IoT connectivity models and protocols
- Understand data collection, processing, and analytics in IoT
- Recognize IoT security risks and mitigation strategies
- Identify business use cases and deployment considerations
- Prepare confidently for the CertNexus CloTP certification exam

### Target Audience

This course is ideal for:

- IT Professionals and Engineers

- Network and System Administrators
- Developers and Solution Architects
- Business Analysts and Product Managers
- Professionals seeking IoT certification and knowledge

## Pre-Requisites

Participants should have:

- Basic understanding of IT and networking concepts
- Familiarity with data and cloud fundamentals
- Interest in IoT and connected technologies
- No prior IoT experience required

## Course Content

### Module 1: Introduction to Internet of Things

- IoT concepts and history
- IoT ecosystems and use cases
- Industry applications of IoT

### Module 2: IoT Architecture and Components

- Sensors, actuators, and devices
- Edge, gateway, and cloud components
- IoT architecture models

### Module 3: Connectivity and Communication

- IoT communication protocols
- Network technologies and standards

- Data transmission and messaging

#### **Module 4: Data Management and Analytics**

- IoT data collection and storage
- Stream processing and analytics basics
- Integrating IoT with cloud platforms

#### **Module 5: IoT Security and Risk Management**

- IoT security challenges
- Device, network, and data security
- Privacy and compliance considerations

#### **Module 6: Deployment, Operations, and Exam Preparation**

- IoT deployment and scalability
- Monitoring and maintenance
- Certification exam overview and preparation tips