



Developing Solutions Using Cisco IoT and Edge Platforms (DEVIOT) V1.0

***WHERE GREAT TRAINING
HAPPENS EVERYDAY!***



Developing Solutions Using Cisco IoT and Edge Platforms (DEVIOT) V1.0

Course Duration

5 Days

Course Price

\$4,500.00

45 CLCs

Methods of Delivery

In-Person ILT

Virtual ILT

Onsite ILT

Certification Exam

300-915

Cisco CE Credits

40

About this Class

The Developing Solutions Using Cisco IoT and Edge Platforms (DEVIOT) V1.0 course prepares you to develop Internet of Things (IoT) applications for Cisco® IoT edge compute and network architecture. Through a combination of lessons and hands-on experience, you will learn to implement and deploy Cisco IOx applications using Cisco Field Network Director and Cisco Kinetic. This course covers designing, deploying, and troubleshooting edge applications, and understanding the use of management tools, so you can control your industrial network and connected devices at scale.

This course will prepare you for the 300-915 Developing Solutions Using Cisco IoT and Edge Platforms (DEVIOT) exam.





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How you will benefit

This class will help you:

- Use network programmability and automation to streamline applications to reduce data size and complexity and strengthen security protocols.
- Gain hands-on experience in maximizing MQ Telemetry Transport (MQTT) protocol for lower power usage, faster data transmission, and more agility in device usage.

Why Attend with Current Technologies CLC

- Our Instructors are the top 10% rated by Cisco
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs run up to Date Code for all our courses

Who Should Attend

The job roles best suited to the material in this course are:

- Consulting Systems Engineer
- IoT Designer
- Network Administrator
- Network Engineer
- Network Manager
- Sales Engineer
- Systems Engineer
- Technical Solutions Architect

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Objectives

After taking this course, you should be able to:

- Explain the fundamentals of Cisco IoT and list common devices involved
- List the common protocols, standards, and data flows of IoT
- Explain the Cisco IoT, common needs, and the corresponding solutions
- Explain how programmability can be used to automate and make operations, deployment, and support of Cisco IoT more effective
- Describe common Cisco IoT applications and how they apply to Cisco IoT use cases
- Explain the functions and use cases for Cisco security applications and Cisco IoT



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Course Outline

Module 1: Defining Cisco IoT

Module 2: IoT Networking and Other Devices

Module 3: Examining IoT Protocols

Module 4: Examining IoT Standards

Module 5: Recognizing Cisco IoT Needs and Solutions

Module 6: Using Programmability with Cisco IoT

Module 7: Describing Cisco IoT Applications: Cisco IOx

Module 8: Describing Cisco IoT Applications: Cisco Kinetic and Cisco Field Network Director

Module 9: Defining Cisco Security Applications



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Lab Outline

- Use an MQTT Consumer to Subscribe to Sensor Data
- Use Cisco IOx Applications to Receive and Process Sensor Data
- Troubleshoot a Sensor Connection
- Use and Interpret Freeboard Data
- Use and Interpret Grafana Data
- Use and Interpret Kibana Data
- Cisco IOx Familiarity Lab
- Develop and Deploy a Cisco IOx Application
- Troubleshoot Cisco IOx
- Navigate Cisco Field Network Director
- Explore Cisco Field Network Director API