

HCIA-IoT



Online Course

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Course Modules

1.A History and Overview of IoT

- IoT Development History
- IoT Overview and Architecture
- Huawei IoT Solution
- IoT Engineering and Engineers

2.IoT Industry Applications and Solutions

- IoT Application Types
- Smart City Solution
- All-in-One Smart Home Solution
- IoV Solution
- Industrial IoT Solution

3.IoT Today

- Development Trends of the IoT Industry
- IoT Fragmentation and Its Solutions

4.Data Collection Technologies

- Sensing Technologies
- Tag Identification Technologies
- Location Data Collection Technologies

5.MCU Basics

- MCU Overview
- MCU Architecture and Working Principle
- MCU Peripherals

6.IoT OS Overview

- OS Overview
- Huawei LiteOS
- OpenHarmony
- Huawei IoT OS Ecosystem

7.IoT Communications Technologies

- Wired Communications Technologies
- Wireless Communications Technologies

8.IoT Communications Protocols

- Basic of Network Communications
- Common IoT Protocols



9.AT Commands for IoT Communication Modules

- AT Command Types
- NB-IoT AT Commands
- Wi-Fi AT Commands
- AT Commands for Huawei-Certified Modules

10. IoT Platform Overview

- Requirements for IoT Platforms
- IoT Platform Classification
- Open Source IoT Platforms
- Huawei Cloud IoT Full-Stack Services
- Accessing the Huawei Cloud IoT Platform

11. IoT Device-Cloud Connection Development

- Device-Cloud Connection Overview
- Product Development
- Device Development
- Application Development
- Routine Cloud Management



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in terms of time management,
flexibility, and the ability
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