AZ-220T00 - Microsoft Azure IOT Developer

Microsoft - Microsoft Azure - Virtualizzazione e Cloud

Durata:	Lingue:	Certificazione:
4 Giorni	**Italiano**	**Microsoft Certified: Azure IoT Developer Specialty**

Descrizione del corso

This course provides students with the skills and knowledge required to successfully create and maintain the cloud and edge portions of an Azure IoT solution. The course includes full coverage of the core Azure IoT services such as IoT Hub, Device Provisioning Services, Azure Stream Analytics, Time Series Insights, and more. In addition to the focus on Azure PaaS services, the course includes sections on IoT Edge, device management, monitoring and troubleshooting, security concerns, and Azure IoT Central. This course is preparatory to the Exam AZ-220: Microsoft Azure IoT Developer valid for Microsoft Certified: Azure IoT Developer Specialty

Programma

Module 1: Introduction to IoT and Azure IoT Services

- Business Opportunities for IoT
- Introduction to IoT Solution Architecture
- IoT Hardware and Cloud Services
- Lab Scenarios for this Course

Module 2: Devices and Device Communication

- IoT Hub and Devices
- IoT Developer Tools
- Device Configuration and Communication

Module 3: Device Provisioning at Scale

- Device Provisioning Service Terms and Concepts
- Configure and Manage the Device Provisioning Service
- Device Provisioning Tasks

Module 4: Message Processing and Analytics

- Messages and Message Processing
- Data Storage Options
- Azure Stream Analytics

Module 5: Insights and Business Integration

- Business Integration for IoT Solutions
- Data Visualization with Time Series Insights
- Data Visualization with Power BI

Module 6: Azure IoT Edge Deployment Process

- Introduction to Azure IoT Edge
- Edge Deployment Process
- Edge Gateway Devices

Module 7: Azure IoT Edge Modules and Containers

- Develop Custom Edge Modules
- Offline and Local Storage

Module 8: Device Management

- Introduction to IoT Device Management
- Manage IoT and IoT Edge Devices
- Device Management at Scale

Module 9: Solution Testing, Diagnostics, and Logging

- Monitoring and Logging
- Troubleshooting

Module 10: Azure Security Center and IoT Security Considerations

- Security Fundamentals for IoT Solutions
- Introduction to Azure Security Center for IoT
- Enhance Protection with Azure Security Center for IoT Agents

Module 11: Build an IoT Solution with IoT Central

- Introduction to IoT Central
- Create and Manage Device Templates
- Manage Devices in Azure IoT Central