

## Szkolenie: Microsoft AZ-220T00 Microsoft Azure IoT Developer



### DOSTĘPNE TERMINY

2026-05-18 | 4 dni | Kraków / Wirtualna sala  
2026-06-22 | 4 dni | Warszawa / Wirtualna sala

### Cel szkolenia:

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.

### Skills gained:

- Create, configure, and manage an Azure IoT hub.
- Provision devices by using IoT Hub and DPS, including provisioning at scale.
- Establish secure 2-way communication between devices and IoT Hub.
- Implement message processing by using IoT Hub routing and Azure Stream Analytics.
- Configure the connection to Time Series Insights and support business integration requirements.
- Implement IoT Edge scenarios using marketplace modules and various edge gateway patterns.
- Implement IoT Edge scenarios that require developing and deploying custom modules and containers.
- Implement device management using device twins and direct methods.
- Implement solution monitoring, logging, and diagnostics testing.
- Recognize and address security concerns and implement Azure Security Center for IoT.
- Build an IoT Solution by using Azure IoT Central and recognize SaaS opportunities for IoT.

### Audience profile:

An Azure IoT Developer is responsible for implementing and then maintaining the cloud and edge portions of an Azure IoT solution. In addition to configuring and maintaining devices by using Azure IoT services and other Microsoft tools, the IoT Developer also sets up the physical devices and is responsible for maintaining the devices throughout the life cycle. The IoT Developer implements designs for IoT solutions, including device topology, connectivity, debugging and security. For Edge

device scenarios, the IoT Developer also deploys compute/containers and configures device networking, which could include various edge gateway implementations. The IoT Developer implements designs for solutions to manage data pipelines, including monitoring and data transformation as it relates to IoT. The IoT Developer works with data engineers and other stakeholders to ensure successful business integration. IoT Developers should have a good understanding of Azure services, including data storage options, data analysis, data processing, and the Azure IoT PaaS versus SaaS options. IoT Developers should have basic programming skills in at least one Azure-supported language, including C#, Node.js, C, Python, or Java.

## Plan szkolenia:

- Introduction to IoT and Azure IoT Services
  - Business Opportunities for IoT
  - Introduction to IoT Solution Architecture
  - IoT Hardware and Cloud Services
- Devices and Device Communication
  - IoT Hub and Devices
  - IoT Developer Tools
  - Device Configuration and Communication
- Device Provisioning at Scale
  - Device Provisioning Service Terms and Concepts
  - Configure and Manage the Device Provisioning Service
  - Device Provisioning Tasks
- Message Processing and Analytics
  - Messages and Message Processing
  - Data Storage Options
  - Azure Stream Analytics
- Insights and Business Integration
  - Business Integration for IoT Solutions
  - Data Visualization with Time Series Insights
  - Data Visualization with Power BI
- Azure IoT Edge Deployment Process
  - Introduction to Azure IoT Edge
  - Edge Deployment Process
  - Edge Gateway Devices
- Azure IoT Edge Modules and Containers
  - Develop Custom Edge Modules
  - Offline and Local Storage

- Device Management
  - Introduction to IoT Device Management
  - Manage IoT and IoT Edge Devices
  - Device Management at Scale
- Solution Testing, Diagnostics, and Logging
  - Monitoring and Logging
  - Troubleshooting
- 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
- Build an IoT Solution with IoT Central
  - Introduction to IoT Central
  - Create and Manage Device Templates
  - Manage Devices in Azure IoT Central

## Wymagania:

- Cloud Solution Awareness: Students should have experience using the Azure Portal and a basic understanding of PaaS, SaaS, and IaaS implementations.
- Software Development Experience: Software development experience is a prerequisite for this course, but no specific software language is required, and the experience does not need to be at a professional level.
- Data Processing Experience: General understanding of data storage and data processing is a recommended but not required.

## Poziom trudności



## Certyfikaty:

Certificate of completing an authorized Microsoft training.

## Prowadzący:

Microsoft Certified Trainer