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## **AZURE IoT DEVELOPER SPECIALTY - (AZ – 220)**

### **1. Implement IoT solution infrastructure**

- 1.1 Set up the IoT Hub
- 1.2 Configure IoT Hub messaging and monitoring
- 1.3 Implement IoT Edge

### **2. Provision and manage devices**

- 2.1 Create and configure IoT Hub device identity
- 2.2 Provision and configure devices
- 2.3 Configure device twins

### **3. Develop IoT Edge**

- 3.1 Set up IoT Edge device
- 3.2 Develop IoT Edge modules
- 3.3 Deploy IoT Edge modules
- 3.4 Manage IoT Edge runtime

### **4. Implement IoT solutions**

- 4.1 Configure and maintain the IoT device connectivity
- 4.2 Implement IoT device solutions using managed services
- 4.3 Implement IoT device solutions using Microsoft and Azure IoT Central

### **5. Configure and manage devices**

- 5.1 Implement and configure Azure IoT services
- 5.2 Manage devices using IoT Hub
- 5.3 Implement and configure Azure IoT Central

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## 6. Monitor, troubleshoot, and optimize IoT solutions

- 6.1 Configure and interpret IoT Hub metrics
- 6.2 Implement logging and monitoring
- 6.3 Troubleshoot device communication
- 6.4 Optimize IoT solution for cost and performance

## 7. Implement security

- 7.1 Implement device authentication and authorization
- 7.2 Implement device security (Device Provisioning Service, DPS)
- 7.3 Implement and configure Azure Security Center, including IoT Security recommendations
- 7.4 Implement security considerations for IoT Edge