

# Certified Internet of Things Practitioner Course (Self-Paced)

In this course, you will learn how to apply Internet of Things technologies to solve real-world problems. The associated exam will certify that the candidate has foundational knowledge of IoT concepts, technologies, and tools that will enable them to become a capable IoT practitioner in a wide variety of IoT-related job functions. To ensure your success in this course, you should be an experienced computer user who is comfortable setting up and configuring computers and electronic devices.

Group classes in Live Online and onsite training is available for this course. For more information, email [onsite@graduateschool.edu](mailto:onsite@graduateschool.edu) or visit: <https://sdfm.graduateschool.edu/courses/certified-internet-of-things-practitioner>



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## Course Outline

### Lesson 1: Planning an IoT Implementation

- Select a General Architecture for an IoT Project
- Identify Benefits and Challenges of IoT

### Lesson 2: Constructing and Programming an IoT Device

- Select and Configure a Processing Unit
- Select a Microcontroller Power Source
- Use a Software Development Kit to Program an IoT Device

### Lesson 3: Communicating with an IoT Device

- Communicate Using Wired Connections
- Communicate Using Wireless Connections
- Communicate Using Internet Protocols

### Lesson 4: Processing IoT Data

- Process IoT Device Input and Output
- Process Data in the Cloud
- Provide Machine to Machine Communication

### Lesson 5: Managing Risks on IoT Projects

- Identify IoT Security and Privacy Risks
- Manage IoT Security and Privacy Risks

- Manage IoT Safety Risks

## **Lesson 6: Undertaking an IoT Project**

- Identify Real World Applications for IoT
- Follow the IoT Development Lifecycle