

Workshop IoT

Duration: 1 Days **Course Code: GKMSWIOT**

Overview:

Everyone is getting in touch with Internet of Things (IoT). With almost unlimited functionality IoT can not be removed from our society. Sensors are measuring, counting, detecting and listening forwarding their data through a diversity of networks. In this workshop the participants will work on building an IoT solution. A hands-on training in which an Internet of Things solution is built based on a Raspberry Pi. The workshop consists of a practical and a theoretical part. In the practical part, a "thing" is built by every student which is going to generate data. For this purpose, a Raspberry Pi is used that is linked to Microsoft Azure IoT Hub via the Internet. The data generated by the Raspberry Pi will be stored in the Azure IoT hub and give the ability to analyze these data.

Target Audience:

Anyone who wants to know more about Internet of Things (IoT) and who easily wants to get started.

Objectives:

- At the end of this course the participant is able:
- to give a description of what IoT is
- the possibilities of using a Raspberry Pi
- transfer data from an IoT device to the internet
- Microsoft IoT hub on Azure
- analyze data in the Microsoft IoT hub.

Prerequisites:

Knowledge of Windows and networks is required.

There is no test connected

Testing and Certification

No test or exam is connected to this training.

Content:

In this workshop participants will work on building an IoT solution. A hands-on training in which an Internet of Things solution is built based on a Raspberry Pi.

The practical part of the training consists of:

- Building a Thing to collect information (such as temperature).
- Raspberry Pi with associated sensors
- Application based on Window 10 IoT Core
- Linking to the Internet
- In this case, the internet connection is made with Microsoft Azure, specifically the Azure IoT hub.
- Collecting, analyzing the data.
- Making use of the possibilities that Azure offers
- Monitoring the solution

The theoretical part of the training covers the following:

- Obtaining information (applications and sensors)
- Short overview of the development side
- Practical applications
- Sending the information (even if there is no direct internet connection)
- Gathering the information (Azure IoT Hub)
- Storage, Analysis, security and monitoring

Further Information:

For More information, or to book your course, please call us on 0800/84.009

info@globalknowledge.be

www.globalknowledge.com/en-be/