

# TK090: IOT Fundamentals

## Duration

3.0 Days

## Course Content

### 1. IoT Fundamentals

- 1.1. IoT Architecture Fundamentals
- 1.2. IoT Functional Topology
- 1.3. IoT System Overview

### 2. IoT Architecture

- 2.1. IoT Device/Sensors
- 2.2. IoT Gateways
- 2.3. IoT Cloud Server

### 3. IoT Protocols

- 3.1. MQTT
- 3.2. COAP
- 3.3. REST/SOAP
- 3.4. 6LowPan, Zigbee
- 3.5. WiFi, BTLE, LoRa

### 4. IoT Device – Kaa SDK

- 4.1. IoT Device Fundamentals
- 4.2. Kaa SDK APIs
- 4.3. Sensor Interface implementation

## **5. IoT Cloud**

5.1 IoT Cloud Fundamentals

5.2. IoT Cloud Server Protocols

5.3. IoT Cloud access from Gateway/Device

## **6. IoT Examples**

6.1 IoT Wearables

6.2. IoT Smart Home

6.3. IoT Smart Shop

6.4. IoT Video Door Bell