

## CERTIFIED INTERNET OF THING FOUNDATION

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**GSDC's Certified IoT Foundation wraps up a vast area of basic concepts, terminology and the key features of IoT.**



### ABOUT CERTIFICATION

GSDC's Certified IoT Foundation wraps up a vast area of basic concepts, terminology and the key features of IoT. The definition of the Internet of things has evolved due to the convergence of multiple technologies, real-time analytics, machine learning, commodity sensors, and embedded systems. Traditional fields of embedded systems, wireless sensor networks, control systems, automation, and others all contribute to enabling the Internet of things.

The course content gives you a clear vision of the business perspective of implementing IoT as well as the advantages of early adoption and monetization model. It represents several scenarios including application and real-life use cases that resulted in smooth services so that the organizations make a move to IoT.

In a nutshell, Certified IoT Foundation provides future insights in IoT and predicts the status of the connected world.

### OBJECTIVES

The objective of Certified IoT Foundation aims towards:

- Defining the concepts and terminologies of IoT.
- Examining new devices and interfaces that are driving IoT growth.
- Relating to business perspectives of IoT
- Predicting the implications of IoT for your business.
- Looking after the role of enabling technologies for IoT, such as cloud computing and Big Data.
- Identifying security and governance issues with IoT.
- Explaining future growth opportunities of IoT in the coming years.

### Our Accreditation:



The Global Skill Development Council (GSDC) is the leading third-party, Vendor-neutral, international credentialing and certification organization. The Global Skill Development Council (GSDC) is proud to be ANSI Accredited Member. The American National Standards Institute (ANSI) is a private, non-profit organization that administers and coordinates the U.S. voluntary standards and conformity assessment system.

# COURSE SYLLABUS

## 1. IOT Introduction & Concepts

- ✓ Introduction: Internet, Things and IoT
- ✓ IoT Types, History and Evolution of IoT
- ✓ Cyber-Physical Systems and differences among IoE, M2M. and IoT Facts and Figures Around IoT Application Areas

## 2. IOT Business Objectives

- ✓ IOT Drivers
- ✓ Benefits for Business
- ✓ IoT Business: Opportunities, Benefits, and Challenges
- ✓ IoT Monetization Strategies and Models

## 3. Basic Building Block of IoT - Architecture

- ✓ Architecture of IoT components
- ✓ Network Components Within IoT
- ✓ Explain the basic building blocks of IoT including Sensors, processors, gateways, and applications.
- ✓ Sensors and actuators.

- ✓ Relate to generic factor of sensors.
- ✓ Architectural layers of IoT.
- ✓ Working of IoT.
- ✓ Key requirements of IoT network.
- ✓ Communication technologies used in IoT including Wi-Fi, Bluetooth,
- ✓ Near Field Communication (NFC), ZigBee.
- ✓ Smart environment application and service domains.

## 4. Enabling Technologies of IoT

- ✓ Social Media and Mobility in IoT
- ✓ Big Data and Analytics in IoT
- ✓ Cloud Computing in IoT

## 5. IoT Security and Top Governance Issues

- ✓ IoT Security Challenges
- ✓ Causes of IoT Security Breaches
- ✓ IoT Security Risks



### GSDC Technical Advisory Board :

The GSDC is the leading certification association which brings together innovative organizations and founding thought-leaders as Technical Advisors from over 40 countries to design curriculum on Blockchain, Devops, Six Sigma & Agile Certifications.

### Further Information:

#### Target Audience

- Software Engineers
- Application Developers
- IT Architects
- System Administrators
- Technical Support Specialists

#### BENEFITS

- After the completion of this certification, you will be able to:
- Achieve customer-centricity
  - Gathering Rich Data.
  - Enhance the security measures
  - Reduce the operational cost
  - Use the smart devices properly
  - Expect a better salary at the end of the month

#### PRE-REQUISITES

There are no prerequisites for Certified IoT Foundation. Only the participants should definitely be familiar with cloud concepts and vocabulary.

#### Certification Available:

**Ethereum developer**  
**Blockchain Architect**  
**Hyperledger Developer**

#### You may also be interested in:

- Lean Six Sigma
- DevOps Practitioner

Find out more online at [www.gsdcouncil.org](http://www.gsdcouncil.org)