

Internet of Things Foundation - GTIOT

Course Overview

The Internet of Things Foundation training course provides an overview and insight into the emerging technology.

The course covers the basic concepts, terminology, and key components of IoT. It explains the business perspectives of IoT including the advantages of early adoption and monetization models. It further expands on the technologies enabling IoT and the various challenges to expect. Several scenarios describe the use cases and applications of IoT that result in smart applications and services to inspire organizations making the move to IoT. The course provides future insights in IoT and forecasts the status of the connected world in 2020.

This interactive and thought provoking course includes:

- Group discussions
- Lab activities to allow you to experience IoT applications: These are in-class lab exercises which will allow participants to experience IoT applications.
- Case scenarios around IoT
- Module End Questions

Learning Objectives:

At the end of this course, you will be able to:

- Define concepts and terminologies of IoT.
- Examine new devices and interfaces that are driving IoT growth.
- Relate to business perspectives of IoT (advantages of early adoption of IoT technologies).
- Predict implications of IoT for your business.
- Examine the role of enabling technologies for IoT, such as cloud computing and Big Data.
- Identify security and governance issues with IoT.
- Examine future growth opportunities of IoT in the coming years.

Target Audience

The Internet of Things Foundation course is most interesting for business and management professionals, including:

- Application Consultant
- Business Analyst
- Business Process Architect
- Developer
- Developer Consultant
- Enterprise Architect
- Program / Project Manager
- Solution Architect
- System Administrator
- System Architect
- Technology Consultant
- User

Duration

2 Days

Prerequisites

Basic knowledge of Internet concepts (Difference between Internet and Web, URL, Http/Https, DNS, etc.), Cloud Computing characteristics, Big Data concepts, Networking concepts (LAN/WAN/MAN, routers, protocols, topologies, etc.)

Accreditation

The Internet of Things Foundation Certification exam is delivered and evaluated by Cloud Credential Council (CCC). The exam voucher is bundled with your training. You will receive the required certification from Exin on successful completion of the Internet of Things (IoT) - Foundation.

Exam

The Internet of Things Foundation exam is delivered and evaluated by Cloud Credential Council (CCC). The exam voucher is bundled with your training. Successfully passing (65%) the 75-minute exam, consisting of 25 multiple-choice questions, leads to the Internet of Things Foundation Certification.

About the CCC

The Cloud Credential Council (CCC) is a global community driven organization that empowers companies in their digital transformation journey. We do this by offering vendor-neutral certification for IT Professionals including Cloud, Big Data, and IoT.

Course Outline

Course Introduction

Concepts and Terminologies

- 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 and IoT Application Areas

Business Orientation

- Drivers of IoT
- Benefits of a Connected World
- IoT Business: Opportunities, Benefits, and Challenges
- IoT Monetization Strategies and Models

Basic Building Blocks of IoT–Architecture

- Architecture of IoT Components
- Network Protocols Within IoT

Enabling Technologies of IoT + Lab Activities

- Role of Social Media and Mobility in IoT
- Defining SMACT
- Role of Big Data and Analytics in IoT
- Role of Cloud Computing in IoT

IoT Security and Top Governance Issues

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

IoT Case Studies and Future Predictions

- IoT Usage Scenarios
- IoT Growth Perspectives
- IoT Future Predictions