ProTech Professional Technical Services, Inc.

CCC Internet Of Things Foundation

Course Summary

Description

The Cloud Credential Council (CCC) Internet of Things Foundation™ certification is a business-oriented, non-technical certification designed to develop a base-level understanding of IoT concepts, terminology, and associated business perspectives.

IoT is having a wide disruptive effect on how organizations transfer data in the early 21st century and its impact is expected to grow exponentially in the foreseeable future. Major technology companies such as Microsoft, Huawei, GE, Cisco, AT&T, Google, Fujitsu, and IBM have all recognized the great growth opportunities underlying IoT and invested accordingly. Driving improvements in productivity, increasing operational efficiency and developing new business models are only some of the promises of IoT. Obtaining IoT expertise has become a necessity rather than an option for any organization undergoing a rapid digital transformation journey. While there is an increasing demand for IoT skills and competences, only a few professionals can currently claim to know the fundamentals of IoT.

The industry-recognized CCC Internet of Things Foundation ensures you are ready to add value to organizations of diverse industries and dimensions. It does so through highly interactive and thought-provoking discussions which focus on:
- Group exploration and debates
- Lab exercises which allow learners to experience IoT applications
- Case study scenarios for IoT
- End of Module questions

Once the certification exam is passed, you are awarded a diploma and digital badge officially recognizing you have achieved the CCC Internet of Things Foundation certification and are now a member of the Cloud Credential Council's global community.

Objectives
At the end of this course, students 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 the 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

Topics

- Course Introduction
- Concepts and Terminologies
- Business Orientation
- Basic Building Blocks of IoT–Architecture

- Enabling Technologies of IoT + Lab Activities
- IoT Security and Top Governance Issues
- IoT Case Studies and Future Predictions
- Exam Preparation Guide
- Mock Exam

Course Summary(cont'd)

Audience

The following departments benefit from CCC Internet of Things Foundation-certified professionals:
- Administrative/Management
- Customer Service
- Finance & Accounting
- Human Resources
- Marketing & Sales
- Operations
- Research & Development
- Other

CCC Internet of Things Foundation jobs include:
- Application Consultants
- CXO's, Board Members, & Business Operation Heads
- Cyber Security Specialists
- Data Scientists
- Developers
- Enterprise Architects
- Program / Project / Product Managers
- R&D Department Managers
- Research / Security / Software Engineers
- Solution Architects
- Support Specialists
- System Administrators / Architects / Analysts / Designers / Engineers
- Technology Enthusiasts

Prerequisites

There are no prerequisites for this course.

Duration

Two days

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Course Outline

I. Course Introduction

II. Concepts and Terminologies
- A. Introduction: Internet, Things, and IoT
- B. IoT Types, History and Evolution of IoT
- C. Cyber-Physical Systems and Differences Among IoE, M2M, and IoT
- D. Facts and Figures Around IoT and IoT Application Areas

III. Business Orientation
- A. Drivers of IoT
- B. Benefits of a Connected World
- C. IoT Business: Opportunities, Benefits, and Challenges
- D. IoT Monetization Strategies and Models

IV. Basic Building Blocks of IoT–Architecture
- A. Architecture of IoT Components
- B. Network Protocols Within IoT

V. Enabling Technologies of IoT + Lab Activities
- A. Role of Social Media and Mobility in IoT
- B. Defining SMACT
- C. Role of Big Data and Analytics in IoT
- D. Role of Cloud Computing in IoT

VI. IoT Security and Top Governance Issues
- A. IoT Security Challenges
- B. Causes of IoT Security Breaches
- C. IoT Security Risks

VII. IoT Case Studies and Future Predictions
- A. IoT Usage Scenarios
- B. IoT Growth Perspectives
- C. IoT Future Predictions

VIII. Exam Preparation Guide

IX. Mock Exam