

Internet of things

IOT



Introduction to IOT

simpli|learn

Table of Contents:

- > Program Overview
- > Program Features
- > Delivery Mode
- > Prerequisites
- > Target Audience
- > Key Learning Outcomes
- > Certification Details and Criteria
- > Course Curriculum
- > About Us

Program Overview:

If you're new to the Internet of Things (IoT) and want to leverage it across business functions, then this introductory course is for you. You'll get a glimpse into the ever-growing field of IoT, a technology that allows the intelligent exchange of data among a network of internet-connected objects.

Program Features:

- > 2 hours of online self-paced learning
- > Lifetime access to self-paced learning
- > Industry-recognized course completion certificate
- > Comprehensive industry-relevant use cases and case studies
- > 9 comprehensive use cases and 7 real-time case studies

Delivery Mode:

Online self-learning

Prerequisites:

There are no prerequisites to take this course. Anyone with an interest in the IOT field may take this course.

Target Audience:

This IoT course caters to CXO level and middle management professionals who want to enhance business value and ROI leveraging IoT. Simplilearn's Introduction to IoT Training Course is ideal for anyone who wants to learn the fundamentals of IoT or pursue a career in this growing field.

Key Learning **Outcomes:**

By the end of this online Introduction to IOT training course, you will be able to:

- > An overview of IoT, including its origin and impact
- > Building blocks of IoT, how they are connected and how they communicate with each other
- > IoT design and development considerations, frameworks and architectures
- > Security considerations, including common IoT security breaches and solutions
- > Real-world industry-relevant business opportunities with IoT
- > How organizations can adopt and benefit from IoT

Certification Details and **Criteria:**

- > Complete the online self-learning course
- > Complete the course-end assessment with a minimum 80% score

Course **Curriculum:**

Lesson 01 - Course Introduction

- > Course Introduction

Lesson 02 - IOT Origin and Impact

- > IOT Origin and Impact
- > IoT Revolution in Industries
- > Use Case: Fleet Management Using IoT
- > Benefits of IoT in Fleet Management
- > Use Case: IoT for Financial Services
- > Benefits of IoT for Financial Services
- > IoT in Dairy Farming
- > Overview of IoT
- > Evolution of IoT
- > Transforming Digital World
- > Differences Between M2m and IoT
- > Use Case: M2m vs IoT
- > Use Case: IoT in Autonomous Vehicles
- > Key Takeaways

Lesson 03 - Building Blocks of IoT

- > Building Blocks of IoT
- > Hardware for IoT
- > Connectivity Blocks and Communication Protocols
- > Platforms Supporting IoT
- > Cloud Computing for IoT
- > Data Management for IoT
- > Mobile Applications for IoT
- > Use Case: Lora Communication Protocol
- > Use Case: Smart Home Using Arduino
- > Key Takeaways

Lesson 04 - IoT Design and Development Considerations

- > IoT Design and Development Considerations
- > IoT Device Architecture
- > IoT Reference Architecture
- > IoT Standardization and Design Considerations
- > IoT Device Architecture: Network and Cloud
- > IoT in Smart Farming
- > Key Takeaways

Lesson 05 - Security Considerations Using IoT

- > Security Considerations Using IoT
- > IoT Security Standards and Best Practices
- > IoT Attack and Vulnerabilities
- > IoT Hardware Solutions
- > IoT Software Solutions
- > IoT's Open Source Solutions
- > IoT Use Case: Utility Companies
- > IoT Security in Utilities Challenges
- > Use Case: IoT Security in Manufacturing Industry
- > Key Takeaways

Lesson 06 - Opportunities with IoT

- > Opportunities with IoT
- > Data Analytics With IoT in Business
- > Data Analytics With IoT: Business Efficiency
- > Industry and IoT
- > Use Case: Industry -predictive Maintenance
- > Internet of Everything: Overview
- > Internet of Everything: Introduction
- > Internet of Everything: Use Cases
- > Social IoT
- > Key Takeaways

Lesson 07 - IoT in Enterprise

- > IoT Decision Framework for Enterprises
- > Case Study: Logistics and Transportation
- > Case Study- Manufacturing
- > Case Study- Chemicals
- > Case Study- Health Care
- > Case Study-consumer Goods Industry
- > Case Study- Energy
- > Case Study - Casino
- > Key Takeaways

About Us:

Simplilearn is a leader in digital skills training, focused on the emerging technologies that are transforming our world. Our blended learning approach drives learner engagement and is backed by the industry's highest completion rates. Partnering with professionals and companies, we identify their unique needs and provide outcome-centric solutions to help them achieve their professional goals

For more information, please visit our website: <https://www.simplilearn.com/iot-certification-training-course>



Founded in 2009, Simplilearn is one of the world's leading providers of online training for Digital Marketing, Cloud Computing, Project Management, Data Science, IT Service Management, Software Development and many other emerging technologies. Based in Bangalore, India, San Francisco, California, and Raleigh, North Carolina, Simplilearn partners with companies and individuals to address their unique needs, providing training and coaching to help working professionals meet their career goals. Simplilearn has enabled over 1 million professionals and companies across 150+ countries train, certify and upskill their employees.

Simplilearn's 400+ training courses are designed and updated by world-class industry experts. Their blended learning approach combines e-learning classes, instructor-led live virtual classrooms, applied learning projects, and 24/7 teaching assistance. More than 40 global training organizations have recognized Simplilearn as an official provider of certification training. The company has been named the 8th most influential education brand in the world by LinkedIn.

India - United States - Singapore

© 2009-2020 - Simplilearn Solutions. All Rights Reserved.

The certification names are the trademarks of their respective owners.