

Introduction to Information Technology

Dauer: 4 Tage Kursnummer: GK3705

Überblick:

In this introductory course, you will learn the basics of computers, operating systems, and communication. With the help of interactive exercises, you will learn about common network protocols, the use of addressing to communicate over the network, and the role of the OSI model in network operation and troubleshooting.

The course also provides a fundamental understanding of what a data center is, commonly used wireless technologies, how encryption can be used to protect data, and how companies monitor and manage their IT infrastructures. You will also learn about cutting-edge technologies such as Unified Communications, Fixed Mobile Convergence (FMC), Cloud Computing, RFID, and IPTV.

Wer soll teilnehmen?:

IT novices who need a broad, fundamental understanding of IT and who want to learn the basics of computers, networking, LANs and WANs, data centers and data storage, and how IT infrastructures are monitored and managed.

Kursziel:

- Nach der Teilnahme dieses Kurses können Sie:
 - Components of a computer, including how information is transmitted in bits and bytes
 - Features and benefits of major operating systems
 - How resources are shared on a network
 - Function of each layer in the OSI model
 - Device identification for communication over the network
 - Functions and characteristics of communication protocols
 - Structure of LANs and WANs
 - Difference between analog and digital signals
 - Commonly used wireless technologies: Infrared, Wi-Fi, Bluetooth, and WiMAX
 - Different options available for data storage
 - Functions of firewalls
 - Basic network monitoring procedures and tools
 - Future and developing technologies such as Unified Communications, FMC, and IPTV
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Voraussetzungen:

■ Ideal candidates include:

Entry-level and newly hired technical professionals, including PC support, help desk, and networking professionals
Sales and marketing professionals looking to increase their ability to communicate with technical professionals and increase sales
Executives who seek better-informed decision making
Beginners seeking fundamental knowledge in preparation for later certification courses

Folgekurse:

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- Understanding Networking Fundamentals
- Telecommunications Fundamentals
- A+ Certification Prep Course
- Network + Boot Camp

Detaillierte Kursbeschreibung:

- Core of Communication
 - States of Communication
 - The Reason for Two
 - The Power of Binary
 - Expressing Values
 - Base 10
 - Base 2
 - A Spoonful of Bits: The Byte
 - By the Numbers
 - Binary in Your Life
 - Terminology in Use
 - Marketing Math
 - Data Speed
 - Your Keyboard
- Computers
 - What is a Computer?
 - The Machine
 - Core Components
 - Communication
 - External Communication
 - Serial vs. Parallel Communication
 - Motherboard
 - Peripherals
 - The Instructions
 - Operating Systems
 - Drivers
 - Software
 - Operating Systems
 - What is an Operating System?
 - The History of Operating Systems
 - The Modern Interface
 - Modern Operating Systems
 - Microsoft Windows
 - UNIX
 - Linux
 - Mac OS
 - Device-Specific Operating Systems
 - Virtualization
 - Network Resource Access
 - Network Resources
 - Before the Network
 - The Simple Network: Peer-to-Peer
 - The Modern Network: Client/Server
 - The Layered Approach
 - The Generic Layered Approach
 - A Layered Approach Example
 - The Networking Model: OSI
 - Layer 7: Application
 - Layer 6: Presentation
 - Layer 5: Session
 - Layer 4: Transport
 - Layer 3: Network
 - Layer 2: Data Link
 - Layer 1: Physical
 - Device Identification
 - A Glance at Device Identification
 - The United States ZIP Code System
 - Physical Addressing
 - Computers Need Identification
 - Local Address
 - Grouping Computers
 - Traffic Sorting
 - Naming Devices for Humans
 - Name Resolution

Weitere Informationen:

Für weitere Informationen oder Buchung kontaktieren Sie uns bitte unter 01/66 55 655 3000

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