Telecom Training: Telecommunications Concepts & Technologies (TELCO101, 4 jours)

Description

The course Telecommunications Concepts & Technologies (Telecom Training) is a comprehensive exploration of the components that make up a modern networking and telecommunications infrastructure. This course begins with an overview of the hardware components of the network and a general discussion of IP based networking including IPv4 & IPv6. The training continues with a high-level discussion of wireless networking, virtual private networks & Voice over IP technologies. The course concludes with a complete troubleshooting lab.

Tarifs

- Tarification: \$3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

Plan de cours

Network Fundamentals An Overview of a Typical Network's Topology Comparing LANs and WANs **Corporate Network Core Components** Network Protocols: TCP/IP and more Inter-Connecting Networks: Routers, Switches and Bridges An Introduction to IP Addressing and Subnetting Connecting Networks to the Internet Internet Addressing TCP/IP Networks and Services A Word about Service Oriented Architecture About Cloud Computing Wireless Technology Fundamdentals The Frequency Spectrum Wireless Communication Primer Spread Spectrum Global System for Mobile and General Packet Radio Service **Code-Division Multiple Access** GSM Versus CDMA **3G Cellular Systems** 2G Mobile Wireless Services Wireless Technologies Landscape 802.11 Wireless LANs Bluetooth Ultra-Wideband **Radio-Frequency Identification** Wireless Metropolitan Area Networks Satellite Wireless Sensor Networks Wireless Networks Bluetooth (802.15.1) Wi-Fi (802.11)

WiMAX (802.16) Cell Phone Technologies Virtual Private Networks (VPNs) -----**VPN** Overview **VPN Solutions Overview VPN** Components Connecting to LANs with VPNs: An Analogy **VPN** Protocols VPN Types **VPN** Security Voice-over Internet Protocol (VoIP) Voice vs. Data: Separate yet Convergent **VoIP** Overview Why Switch to VoIP? Using VoIP on Microsoft Windows **VoIP Telecom Network Foundations** Replacing the Voice Circuit with VoIP VoIP Packets, Headers and Components Replacing Call Signaling with VoIP About Voice QoS Troubleshooting Networks Troubleshooting Networks: A Proposed Methodology Network Troubleshooting Tools **Troubleshooting Client to Client Communications Troubleshooting Internet Connectivity Troubleshooting Wireless Access** Other Troubleshooting Tips and Techniques Using and Understanding Network Analyzers (Practical Lab) - Putting together a Wired and Wireless Network from Scratch