



Implementing Voice over IP

Duration: 3 Days **Course Code: GK3276**

Overview:

The ability to service voice communications needs over your existing data networks is now a reality. Maximizing your savings can be done through the critical elements of proper evaluation and design. This course provides real-world, multivendor options for integrating voice and data communications applications. Analyze, discuss, and demonstrate cost vs. call quality issues, and discuss the key standards and technologies that make VoIP a reality

Target Audience:

IT managers, technical sales/marketing personnel, consultants, network designers, network engineers, product design engineers developing integrated-services products, telecom technicians and managers needing to understand Voice over IP, and systems administrators who will manage a converged network

Objectives:

- ITU (H.323)/IETF (Internet-Based) standards
- Decipher the call setup procedure under the H.323 standard
- Protocol flows and how to analyze codec negotiation using network trace tools
- Core concepts of how IP (Internet Protocol) carries a VoIP packet
- Compare IP, ATM, and Frame Relay voice/data networks
- H.235 Security
- How a VoIP gatekeeper acts as a virtual telephony switch
- The missing pieces of VoIP implementation, including signaling, call accounting, and billing
- The effect of line jitter, call latency, compression, and sockets
- Evaluate PC-to-PC, PC-to-phone, and phone-to-phone calls

Prerequisites:

A solid understanding of TCP/IP and telecommunications. Fundamentals of Voice over IP (GK-3855) course is highly recommended.

Testing and Certification

This course and Fundamentals of Voice over IP(GK-3855) help you prepare for the Convergence Technologies Professional (CTP) certification.

Follow-on-Courses:

- Cisco Voice over IP (CI-CVOICE)
- Network Security Fast Track (GK-NSBC)
- Advanced Deployment of Voice over IP (GK3285)

Content:

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| ■ Packetizing Voice | ■ Technology Necessary to Make VoIP Successful | ■ Gateway Protocols |
| ■ TCP/IP Review | ■ H.323 | ■ Network Security |
| ■ Real-Time Transport Protocol | ■ Session Initiation Protocol | ■ Implementing VoIP |

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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