

# **SIP ESSENTIALS**

5 Days (Lecture and Labs)

## **Who Needs to Attend**

Those who want a technical explanation of how SIP works, how to make SIP work, and why SIP is important. Anyone whom is planning an install SIP trunking or internetwork telephone systems using SIP

## **Prerequisites**

TCP/IP Networking background

## **Course Description**

Learn the SIP protocol and important protocols related to SIP implementations. Thoroughly study the SIP protocol through a process of lecture and hands-on training. Learn what SIP is and how it works, and get a practical guide on how to use it. The lessons in this course are clear, very technical, and always practical, and since at least 60% are hands on, you can investigate and reinforce each lesson. In this course, you'll examine how SIP interoperates in the current telecommunications network, going beyond the basics of the protocol and getting a big picture understanding of how it all fits together.

## **What You'll Learn In Class**

- Why SIP is a Valuable Protocol
- SIP Architecture
- Understand SIP Uniform Resource Indicators (URIs)
- SIP Headers
- SIP-Related IP Services
- RTP and Real-Time Control Protocol (RTCP)
- SIP for Instant Messaging and Presence Leveraging Extension (SIMPLE)
- How SIP Intelligently Routes Calls over Any Network
- SIP Security
- Wireshark

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