

Fundamentals of Voice over IP (VoIP)



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Course Length	One (1) day
Course Code	NFSVOIP1
Course Title:	Fundamentals of VoIP
Prerequisites	None, however an Introduction to Data technologies course is extremely helpful.
Course Overview:	This course is designed to provide a basic overview of VoIP technology and services.

*. *This course can be customized or combined with other material to meet specific requirements*

**Additional days can be added for advanced hands-on applications*

Course Outline

Overview of VoIP

- Industry Overview
- IP telephony
- Costs
- The lure of VoIP
- Basic equipment and network
- Model for IP telephony

Digital Voice Fundamentals

- Basic Telephony Overview
- Packet Voice Fundamentals
- Circuit/Packet switched comparison

Standards for VoIP

How an IP phone call works

H.323 architecture

VoIP on the OSI model

Application Layer issues

H.225 and H.245

SIP (Session Initiation Protocol)

VoIP Gateways

Gateway Functions

Are Gateways always necessary

Gateway components and features

Gatekeepers

Quality of Service in VoIP

What is QoS?

QoS Parameters

QoS and the network

VoIP router concerns

The future of VoIP



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