

# Introduction to Session Initiation Protocol (SIP) (6340)

GK6340



**Duration:** 1 day

## Overview

More and more vendors are offering products that use Session Initiation Protocol (SIP) as their signaling protocol. This course gives you a solid grounding in the purposes of SIP, the architecture of SIP, and how SIP functions so that you are prepared to understand the behavior of the various SIP devices in your network, regardless of vendor.

## Pre-Requisites

- ✓ There are no prerequisites for this course.

## Objectives

- ✓ After you complete this course you will be able to:
- ✓ Articulate the problems SIP is designed to solve;
- ✓ Describe SIP interactions with other protocols in the TCP/IP stack;
- ✓ Describe the architecture of SIP, including User Agents, Presence Agents, Gateways, and Servers (Proxy, Stateful, Stateless, Call Stateful, Redirect, Forking, and Session Border Controller);
- ✓ Describe the 13 SIP Methods;
- ✓ Articulate the structure of SIP Responses;

- ✓ Recognize SIP Header Fields, including Request/Response Header Fields, Request Header Fields, Response Header Fields, and Message Body Header Fields;
- ✓ Describe the role of Uniform Resource indicators in SIP;
- ✓ Describe how to maintain security in a network that is using SIP;
- ✓ Articulate the call flows for the more common SIP-initiated session types;
- ✓ Describe SIP interactions with selected related protocols, including SIMPLE and 3GPP.

## Target Audience

This course is designed for anyone who wants to know more about SIP devices.