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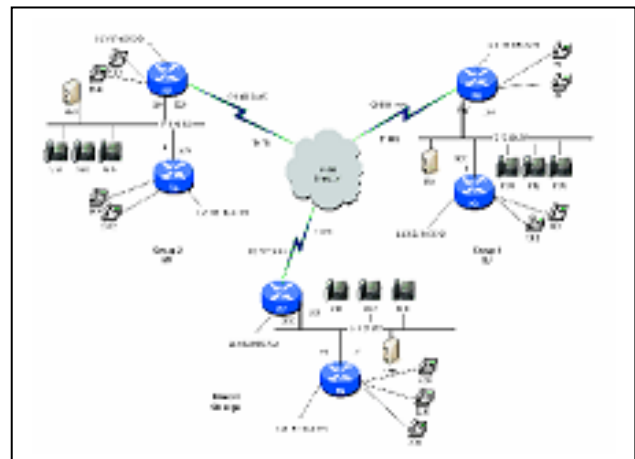
# Cisco® IP Telephony Boot Camp Training

(Preparatory training for the Cisco Certified Voice Professional or CCVP track)

- Course Length:** 10 weeks (80 hours), Instructor-led
- Skill Development:** Install, integrate, configure and troubleshoot Cisco® IP Telephony solutions in a Cisco network environment.
- Prerequisites:** CCNA (CCNP or equivalent experience strongly recommended)
- Target Audience:** (1) Experienced CCNP's (or equivalent) who want training and credentials in Cisco VoIP/IP Telephony such as CCVP; (2) CCIE and CCIE candidates who want to expand their Cisco networking knowledge base; (3) network engineers who want to review before taking their CCIE Voice qualification and lab exams; (4) network professionals who support Cisco IP Telephony products on a daily basis.
- Course Objective:** Provide students with the knowledge, skills and practical experience to: (1) be effective on the job; (2) pass the Cisco Certification exams required to attain Cisco IP Telephony Support or Operations Specialist status.
- Exams covered:** CVOICE, CIPT, DQOS, IPTT and (soon available) GWGK (Note: this is a comprehensive Cisco IP Telephony course covering materials from all four exams, not just the CIPT exam)
- Lab:** Labs will be both in class (instructor-led) and off-hours (self-paced). Additionally, students have currently one full year of free lab access privileges

### Topics to be covered:

- Overview
- Analog and Digital Voice Technologies
- Lab: Configuring Voice Interfaces and Voice Dial Peers
- Voice over IP Signaling and Call Control
- VoFR and VoATM
- Lab: VoFR and VoATM
- Introduction to AVVID and Cisco IP Telephony (CIPT) components
- Lab: Installing Cisco CallManager
- CallManager Cluster and Deployment Options
- Lab: Configuring CallManager to support IP Phones
- Cisco Catalyst Switches and Gateways (H.323, MGCP)
- Route Plans and Telephony Class of Service
- Call Admission Control (CAC) and Survivable Remote Site Telephony (SRST)
- Lab: Cisco IP Softphone and Extension Mobility
- CallManager Tools
- QoS Classification and Marking
- Congestion Management and Congestion Avoidance
- Lab: Marking using ACL, PBR, IP Prec and DSCP
- Policing, Shaping, and Queuing
- Lab: FRTS and LLQ
- QoS Management Tools and QoS Design
- Troubleshooting IPT and Voice problems
- Lab: Identify and resolve problems
- Troubleshooting Dial Plan
- Lab: Troubleshooting Tools



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