

## Real World Cisco Voice Part 1

This task oriented, practical hands-on course assumes nothing about VoIP & IPT and builds in complexity covering all the essential IP Telephony components and concepts.



**Experts in Networking**

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**Thus providing IT professionals with the knowledge and skills to support and configure Cisco IPT solutions.**

This practical (no theory for theory sake) course provides the foundation that covers the technology, configuration and concepts for Cisco Voice Solutions. It not only covers VoIP but also IPT solutions utilising Call Manager (CCM). Certification is not the main course objective.

- **Authorised Cisco instructors**
- **12 months post course support**
- **Live Kit used for all Labs**

### Course Pre-Requisites

Delegates are required to meet the following prerequisites:

- CCENT level of knowledge essential, CCNA level preferred
- Knowledge and understanding of Windows

Course	Course Objectives	Course Content
<p><b>Real World Cisco Voice Part 1</b></p> <p><b>Target audience:</b> CCNA &amp; CCNP level professionals wishing to understand Cisco Solutions</p> <p>The course content forms part of the following Cisco exams with some additional study</p> <p>CVoice QoS CIPT</p> <p>Duration: 4 days</p> <p><b>Location:</b> Slough Client Site</p>	<p>Upon completion of this course, the delegate will be able to:</p> <ul style="list-style-type: none"> <li>• Understand VoIP terminology</li> <li>• Define the advantages and limitations of VoIP</li> <li>• Understand the Cisco hardware used in different environments</li> <li>• Understand the relationship between CODEC choice, payload size, and transmission bandwidth</li> <li>• Describe the voice quality problems inherent in transmitting voice over a packet network.</li> <li>• Configuring Voice Ports and Dial Peers</li> <li>• Configuring routers for Voice over IP (VoIP)</li> <li>• Configure network wide quality of service (QoS)</li> <li>• Install the Cisco Call Manager components</li> <li>• A basic Configuration of Cisco Call Manager to support IP Phones</li> <li>• Identify and configure Catalyst Switches used in CIPT solutions</li> <li>• Describe how gateways fit into the CIPT design</li> <li>• Configure a basic route &amp; dial plan</li> <li>• Configure Cisco Routers for Call Admission Control</li> </ul>	<ul style="list-style-type: none"> <li>• Basic Call Manager feature definition</li> <li>• Configuring of the Cisco Unified Communications Manager Phone registration process</li> <li>• Analogue and Digital Voice Technologies</li> <li>• Introduction to Voice over IP</li> <li>• Configuring Voice Interfaces</li> <li>• Voice Dial Peers</li> <li>• Voice over IP Signalling and Call Control</li> <li>• Improving and Maintaining Voice Quality</li> <li>• Cisco Call Manager to support IP Phones</li> <li>• Identify and configure Catalyst Switches used in CIPT solutions</li> <li>• Describe how gateways fit into the CIPT design</li> <li>• Configuration of H.323 Gateways and Gatekeepers for Zone CAC</li> <li>• Explanation of the H.323 protocol</li> </ul>