

## Real World Cisco QoS (Quality of Service)

This course is designed for network administrators, support or design staff requiring a greater understanding of QoS it's configuration and issues for applications within converged networks



*Experts in Networking*

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Our three day instructor led QoS course uses VoIP for the QoS application so that delegates not only get statistics on queuing performance but also hear the effects. The hands on practicals also include troubleshooting challenges thus reflecting the 'Real World'. All the different Cisco QoS queuing strategies from FIFO to MQC are taught along with practical labs to test and reinforce the theory

- **Authorised Cisco Instructors**
- **Live kit used for all labs**
- **12 months post course support**

### Pre-requisites

- Completion of the CCNA course or equivalent knowledge
- A basic knowledge of the Windows operating system

Course	Course Content
<p>Real World Cisco QoS</p> <p>This is part of NCAT's real world series of courses which have been developed to reflect problems and issues encountered in the 'Real World' and hence is not aimed at certification</p> <p><u>Duration</u> 3 days</p> <p><u>Location:</u> Wokingham or Client site</p>	<ul style="list-style-type: none"><li>• Introducing VoIP Networks</li><li>• Digitizing and Packetizing Voice and calculating Bandwidth Requirements</li><li>• Introducing QoS and different QoS models (IntServ and DiffServ)</li><li>• Main QoS Structure<ul style="list-style-type: none"><li>○ Classification and Marking</li><li>○ Congestion Management</li><li>○ Traffic Shaping and Policing</li><li>○ Congestion Avoidance</li><li>○ Link efficiency tool</li></ul></li><li>• Using NBAR for Classification</li><li>• Introducing Queuing Implementations</li><li>• Configuring WFQ</li><li>• Configuring CBWFQ and LLQ</li><li>• Introducing Congestion Avoidance (RED)</li><li>• Introducing Traffic Policing and Shaping</li><li>• WAN Link Efficiency Mechanisms</li><li>• Implementing QoS Pre-Classify</li><li>• Deploying End-to-End QoS</li><li>• Introducing AutoQoS</li><li>• Mitigating Common AutoQoS Problems</li><li>• Modify the QoS configuration created by AutoQoS</li></ul>