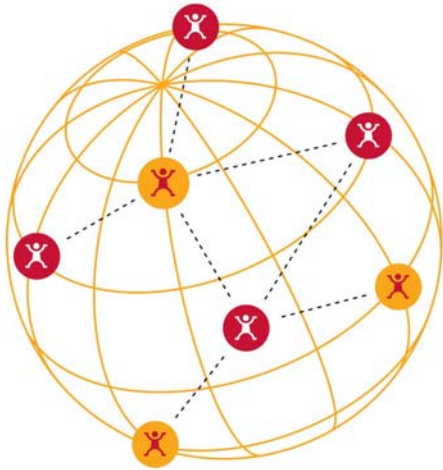


TRAINING PROGRAM OUTLINE



ENG-207E NEXT GENERATION NETWORKS

DESCRIPTION

A 5-day Training Program to provide participants with a sound understanding of the fundamentals of Next Generation Networks (NGNs).

The Training Program will cover topics such as NGN architecture, protocols, main network components, interworking with legacy networks, Quality of Service (QoS) and network management. The program will also address NGN consumer and business services and consider some of the major issues associated with migrating from a legacy network to an environment incorporating an NGN.

OBJECTIVES

- Provide an overview of NGNs and the differences from legacy networks
- Describe the architecture of NGNs and their main components including: softswitches, gateways, application servers, and signaling
- Provide an understanding of QoS in NGNs
- Explore NGN applications for consumers and businesses as well as carriers



- Explain NGN management with respect to configuration, faults, performance, accounting and security
- Provide an overview of new technology and its influence on evolution of NGNs
- Explore the issues and opportunities associated with migration from legacy to Next Generation Networks

TOPICS

- Introduction and overview
 - NGN: definitions, concepts and services
 - Displacement of legacy networks: an historical and technical perspective
 - Typical structure of a NGN and differences from legacy networks
 - Examples of the current world NGNs
- NGN architecture and main components
 - Review of IP and its protocols
 - NGN architecture and components
 - Softswitches
 - Gateways
 - Application servers
 - Signaling and interworking
- Quality of Service (QoS)
 - Understanding QoS
 - Principles of queuing applied to QoS
 - Techniques and protocols addressing QoS
 - Virtual Private Networks (VPNs)
 - Multi-Protocol Label Switch (MPLS)
 - Bandwidth management
 - Traffic, Service Level Agreements (SLAs), carrier versus enterprise requirements
- NGN applications
 - NGN services
 - Voice over IP (VoIP)
 - Video on Demand (VoD)



- Others
- Consumer versus business services
 - Voice
 - Data
 - Video
- Security issues and techniques used in NGNs
- NGN management
 - Configuration
 - Fault
 - Performance
 - Accounting
- New technology and its influence on the evolution of NGNs
- Migration to NGN services
 - Technical migration issues
 - Business migration issues
 - NGN regulatory and policy issues
 - Opportunities for new revenue generation in the NGN market

TARGET AUDIENCE

- Telecommunications managers and personnel responsible for network design, implementation or operations
- Managers looking to complement their skill-set by gaining a good understanding of Next Generation Networks



METHODOLOGY

Our Training Programs combine expert presentations, workshops, case studies and discussions on real-life situations faced by participants. Complete training material is provided to all participants for future reference and follow-up action plans.

LOCATION

Our Training Programs are held at regular intervals in selected cities around the world. Upon request, our expert trainers can lead Training Programs at the location of your choice. If interested, please contact us at training@neotelis.com.

EXPERTISE

Neotelis provides consulting and training services to telecommunications organizations worldwide. Its team of experts has trained thousands of executives and managers working for operators, regulators, policy-makers and governments in over 100 countries around the world.

