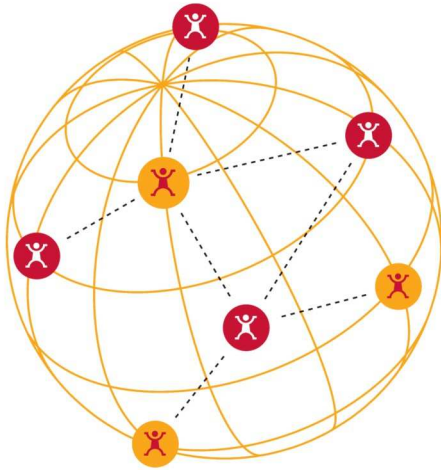


# TRAINING PROGRAM OUTLINE



## ENG-206E SOFTSWITCH SYSTEMS

### DESCRIPTION

A 5-day Training Program to provide participants with the basic knowledge, tools and methods to plan, design and deploy softswitch systems.

### OBJECTIVES

- Provide knowledge and understanding of the state-of-the-art softswitch and Voice over IP (VoIP) concepts and technologies in modern telecommunications applications
- Present the design, implementation and maintenance concepts necessary for building the telecommunications services and applications of the future
- Provide an understanding of the migration from Second Generation (2G) network to full IP network



## TOPICS

- Softswitch introduction
  - Definitions
  - Equipment manufacturers
- Background information
- Softswitch technologies
- Softswitch technical details
- Softswitch subscriber features
- Softswitch network features
- Softswitch interworking
- Softswitch operations, maintenance and troubleshooting
  - Operator interfaces
  - Important provisioning functions
  - Maintenance of external resources
  - Fault and performance management
  - Managing event reports and summaries
  - Taking corrective action
  - Overview of security management
  - Billing
  - Traffic measurement counters
  - Simple Network Management Protocol (SNMP) interface
  - Common Object Request Broker Architecture (CORBA) and Java Application Interfaces (JAIN) in softswitch
  - Backing-up data
- Integration of softswitch into legacy network
  - Architectural issues
  - Tandem switching issues



- Legacy access plant issues
  - Class 5 switching issues
  - Operational issues
  - Interconnection issues
- Migration from a 2G network to full IP network
    - Orderly migration of wireless networks
    - Third Generation (3G) partnership project
    - Call State Control Function (CSCF)
    - Three layers (IP/MultiProtocol Label Switching – MPLS)
    - Delivering high speed data
    - Evolution 2G to 3G voice
    - Merged wireless 2G 3G technologies
    - Benefits of softswitch in mobile networks
    - Deploying services off softswitch
  - Protocols

## TARGET AUDIENCE

- Telecommunications managers and personnel responsible for the planning, design, deployment and management of softswitch systems
- Managers looking to complement their skill-set by gaining a sound understanding of softswitches and VoIP

## 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](mailto: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.

