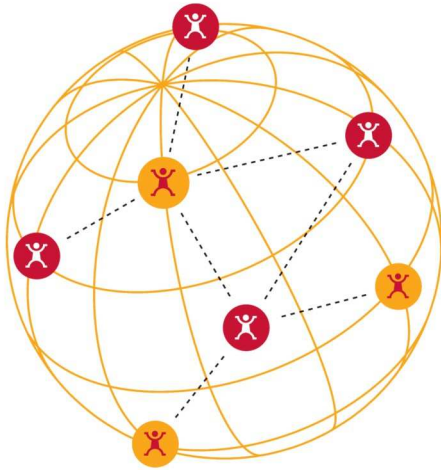


TRAINING PROGRAM OUTLINE



ENG-205E ADVANCED INTELLIGENT NETWORKS

DESCRIPTION

A 5-day Training Program to provide participants with the basic principles of Advanced Intelligent Networks (AIN)

OBJECTIVES

- Provide participants with the fundamental knowledge of Intelligent Networks (IN) and Advanced Intelligent Networks
- Present the IN service lifecycle, the basic principles of access gateways and mediation and network computer telephony integration
- Provide participants with the fundamental knowledge of Internet Protocol (IP) and IN integration, Signaling System 7 (SS7) gateway solution and local number portability
- Present the voice over ATM technology and Wireless Intelligent Networks (WIN)
- Present Telecommunication Management Network (TMN) solutions



TOPICS

- Broad introduction
 - Introduction to IN
 - AIN and services
 - Standards and model
 - IN and AIN releases and service creation
 - Product offerings

- IN service creation lifecycle
 - Issues in service creation
 - Building blocks
 - Infrastructure
 - Rapid testing
 - Future evolution

- Access gateways and access mediation
 - Introduction to access mediation
 - Historical background
 - Access
 - Gateways
 - Several application scenarios
 - Platform functional requirements
 - Products and services

- IP and IN Integration
 - Discussion on PSTN and IP networks
 - Internet telephony signaling point
 - IP to SS7 network gateway
 - Internet telephony service switching point
 - Future of telephony

- Network computer telephony integration
 - Enterprise computer telephony integration applications and AIN services
 - Architecture comparison
 - Network Computer Telephony Integration (NCTI)
 - Carrier solutions



- SS7 gateway solution
 - Out-of-band signaling
 - Signaling network architecture
 - Layers of SS7
 - Addressing in SS7 networks
 - SS7 gateway in IN-based system
 - Architecture and processes

- Voice over ATM
 - Traditional voice and ATM transmission
 - Issues
 - Future voice market
 - Products

- Local number portability
 - Local routing number architecture
 - Call routing algorithms
 - Database query protocols
 - Local loop unbundling
 - Network impact

- Wireless Intelligent Networks (WIN)
 - Service requirements
 - WIN services
 - Functional components
 - Standards
 - Product offerings

- Telecommunication Management Network (TMN) solutions
 - Basic introduction
 - TMN agents, model and Object Oriented (OO) technology



TARGET AUDIENCE

- Telecommunications managers and personnel responsible for network planning and engineering
- Managers looking to complement their skill-set by gaining a good understanding of Advanced Intelligent 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.

