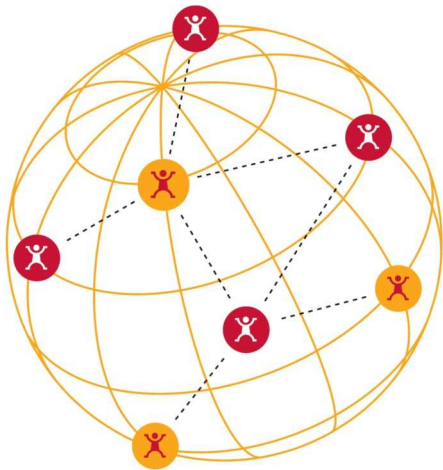


TRAINING PROGRAM OUTLINE



ENG-201E COMMON CHANNEL SIGNALING NO.7

DESCRIPTION

A 10-day Training Program to provide participants with basic concepts of Common Channel Signaling No. 7 (CCS7) functionality.

OBJECTIVES

- Provide an understanding of the basic functional concepts and terminology used in CCS7
- Describe the CCS7 architecture and protocol
- Provide an understanding of the CCS7 communication tasks and the structure of the basic signal units
- Discuss error detection and correction methods
- Provide information on message discrimination, distribution and routing
- Define Transaction Capabilities Application Part (TCAP) and provide an overview of message transactions
- Introduce CCS7 test procedures



TOPICS

- CCS7
 - Principles of signaling systems
 - Channel associated signaling
 - Common channel signaling
 - Signaling requirements, concepts and terminology

- Architecture of modern signaling systems
 - Service switching point
 - Signal transfer point
 - Service control point
 - Operation support system
 - Signaling data link
 - Level structure of CCS7
 - Application of the OSI model to CCS7

- OSI reference model
 - Importance of layering concepts in CCS7
 - Protocols and primitives

- CCS7 transfer mechanisms and signal units
 - Message Transfer Part (MTP) levels structure and protocols
 - MTP1
 - Digital Time Division Multiplexing (TDM) hierarchy
 - MTP2
 - Description of signal units
 - Error detection and correction
 - Alignment of signal units
 - MTP3
 - Signaling network
 - Routing label
 - Signaling message handling
 - Signaling network functions
 - Analysis and testing

- Signaling Connection Control Part (SCCP)
 - Message types and procedures
 - Example of SCCP use
- Overview of TCAP
 - Message structure and functionality
- CCS7 user parts
 - Telephone User Part (TUP)
 - ISDN User Part (ISUP)
- ISUP test procedures
 - Test level one requirements
 - MTP level two test specification
 - MTP level three test specification
 - ISUP basic call test specification

TARGET AUDIENCE

- Telecommunications managers and personnel responsible for CCS7 planning, development and implementation
- Managers looking to complement their skill-set by gaining a good understanding CCS7 concepts

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.

