ENG-110 - Telecom Technologies for Business

Description

This course is also available as a live distance learning course

A 2-day training course that will introduce participants to the key telecom technologies available to businesses today, including IP-based networks and services, cellular and Wi-Fi networks, unified communications, and cloud services. The course will also explore the phenomenon of BYOD and review mobility management solutions.

Objectives

- Gain a high-level understanding of the telecom technologies available to businesses today
- Discover the potential advantages and benefits of telecom technologies
- Develop critical thinking in relation to the multitude of technological offers available in the market

Topics

*Note: the course structure may be subject to change as trainings are updated on a regular basis.

Fundamentals
- Key concepts of voice and data transmission
- Access versus core
- Private networks versus public networks
- Global public communications networks
    - PSTN
    - Internet

Data networks and services
- Packet switching versus circuit switching
- LAN versus WAN
- Data transmission services
    - Dedicated services
    - Frame Relay

- ○ LAN extension
  - ○ IP-VPN (MPLS)
- VoIP - convergence of voice and data

Wireless and cellular networks and services
- Cellular networks – CDMA, HSPA, HSPA+, LTE
- Satellite-based services
- Wi-Fi networks

Voice equipment and services
- Traditional voice systems and services
  - ○ Key systems, PBXs, Centrex
- IP-based and converged systems and services
  - ○ Key systems, IP-PBXs, IP-Centrex
  - ○ SIP trunking
  - ○ Residential IP telephony
- Principal equipment and services vendors in Canada

Unified communications
- Definition and advantages
- Issues
- Vendors and solutions

BYOD and mobility management
- The 'consumerization' of technology
- Impacts of BYOD – device proliferation, the 'always available' employee, security, policy issues
- Mobility management solutions
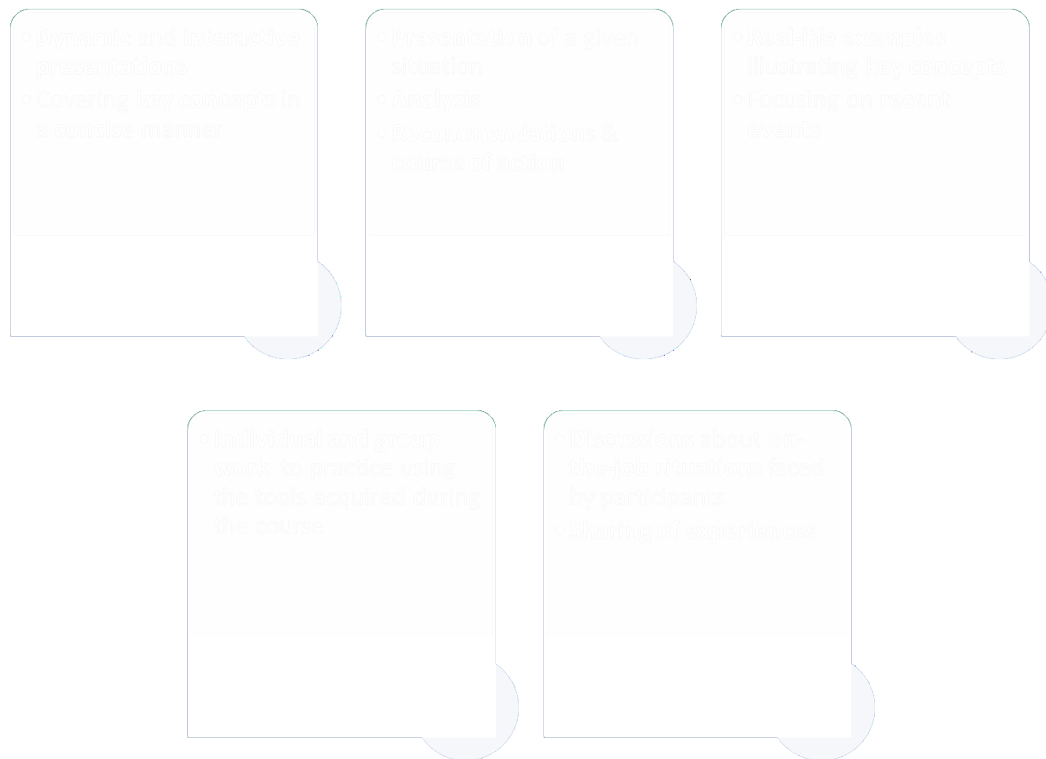
Cloud services
- Overview
- Advantages and disadvantages
- Vendors and services

Target Audience

- Managers responsible for their organization's telecommunications requirements who need an all-around understanding of current telecom technologies
- Managers and professionals with an interest in learning about telecom technologies

Methodology

A combination of engaging activities and dynamic presentations to stimulate and maximize participants' learning.

- Dynamic and interactive presentations
- Covering key concepts in a concise manner

- Presentation of a given situation
- Analysis
- Recommending a course of action

- Real-life examples illustrating key concepts
- Focusing on recent events

- Individual and group work to practice using the tools acquired during the course

- Discussions about on-the-job situations faced by participants
- Sharing of experiences

Location

A selection of Neotelis' training courses is held in various cities around the world. Please contact us at training@neotelis.com for the complete Yearly Training Calendar.

Neotelis can also deliver in-house sessions of this course specifically for your organization. Please contact us at training@neotelis.com for more information and a Proposal.

About Neotelis

Neotelis provides training, consulting, conferences and publications to the telecommunications industry worldwide. Its team of senior experts has trained thousands of executives and managers working for operators, regulators, policy-makers and governments in over 120 countries around the world.