



## MGT-010 - The ABCs of Telecom e-Learning

### THE ABCs OF TELECOM e-Learning

On Neotelis' Learning Management System  
**KNeledge**

### Description

An e-Learning course composed of 9 training modules available at any time on Neotelis' **KNeledge** portal. The course presents an integrated view of the telecommunications industry: from its technological and network evolution, to its major drivers and key stakeholders. This course also looks at the industry's structure and important current issues, as well as trends and the future of the industry.

### Learning Outcomes

At the end of the course, participants will be able to:

- Explain how 21st century telecom functions globally in terms of technologies and networks,

- industry structure, key players and important trends
- Use key vocabulary
- Position their organization within the telecom industry in order to identify upcoming challenges with respect to important industry trends
- Identify key current issues and trends in telecommunications and what the future holds in this exciting and rapidly-changing industry

## **Topics**

The training course covers the following topics:

### **Module 1: Introduction and history**

- Introduction
- Evolution of telecommunications technologies

### **Module 2: “Voice is king” - Developing the Public Switched Telephone Network (PSTN)**

- Transmission and switching
- Numbering
- Exercise #1 - Follow a voice call over PSTN
- Signalling
- Dedicated lines and Customer Premise Equipment (CPE)
- Analog vs. Digital
- Exercise #2 – Codecs and modems
- Quiz #1

### **Module 3: “The rise of data” - Developing the Public Switched Data Network (PSDN)**

- The Public Switched Data Network (PSDN)
- Quiz #2

### **Module 4: “Wireless gives wings for mobility” - Developing the Public Land Mobile Network (PLMN)**

- Antennas and towers
- 2G, 3G, LTE/ 4G and Beyond
- Exercise #3 - Follow a voice call over PLMN
- Wireless Personal Area Networks (WPAN)
- Roaming
- Quiz #3

### **Module 5: “The revolution” - TCP/IP and the Internet**

- TCP/IP and the Internet

- OSI and TCP/IP models
- Addressing
- Special services supporting IP
- Quiz #4

### **Module 6: “A new world – Convergence” - Developing the NGN (part 1)**

- VoIP
- Signalling, numbering and addressing
- Quality of Service (QoS) and security
- IP Interconnection
- Exercise #4 – Follow a voice call over IP
- Quiz #5

### **Module 7: “A new world – Convergence” - Developing the NGN (part 2)**

- Broadband – “The new king on the block”
- Convergence - “All services on one network”
- Devices
- Exercise #5 - How Internet Search Engines Work
- Innovative services and applications
- Quiz #6

### **Module 8: Industry structure – Key participants**

- Policy-making, regulation and operation
- Governments and regulators
- Operators and service providers
- Other stakeholders
- Quiz #7

### **Module 9: Industry outlook**

- Current hot issues
- Exercise #6 - Zero-rating: The bleeding edge of the net neutrality debate
- Major drivers and trends
- Challenges, impacts, opportunities and the future
- Quiz #8

### **Target Audience**

- Telecommunications and other industry professionals looking to increase their personal and professional success by gaining a comprehensive view of the telecommunications industry

## Methodology

Neotelis e-Learning training courses are taken entirely online via Neotelis' Learning Management System **KNeledge** and are composed of different training modules using various learning tools such as:



Access to Neotelis e-Learning training courses requires a computer, a headset (or speakers) and a stable Internet connection.

## Location

Neotelis e-Learning training courses are accessible on our Learning Management System **KNeledge** anywhere at anytime.

## 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.

... Telecom Leaders Use Neotelis. Don't Get Left Behind! ...



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