

Satellite Communication Systems & IP in Modern Networks

Kigali (Rwanda)

16 - 20 December 2024

UK Traininig

PARTNER



Satellite Communication Systems & IP in Modern Networks

Code: GC28 From: 16 - 20 December 2024 City: Kigali (Rwanda) Fees: 3700 Pound

Introduction

Successful as they are today, satellite systems are on the brink of a revolution. that will doubtless have a significant impact in the not too distant future. New and promising technology continues to appear every day. This satellite communications training course covers the most recent advancement in the field of satellite communication systems.

This course enables the participants to learn about the updates in the basics of satellite basic, parts of a satellite. and how to build a communications satellite within the latest updates. also an understanding of the major approaches, including network topologies, VSAT, and IP networking over satellite.

Course Objectives of Satellite Communication Systems & IP in Modern Networks

- Being introduced to satellite communication systems
- how does satellite communication work?
- Learning about satellite band frequencies
- Identifying the requirements for an effective IP network, network id in IP address
- Examining the potential security risks in AAA
- Understanding the wireless LAN and Other Access Technology
- how to check used IP address in network

Satellite Communication Systems & IP in Modern Networks Course Outlines

Day 1

Introduction of Satellite communication systems

- Introduction of Advanced Satellite communication systems, satellite communication basics
- Multiple Access Techniques: FDMA, TDMA, CDMA, Random Access
- All Digital Modulation Techniques
- Amplitude Shift Keying ASK and Frequency Shift Keying FSK
- Binary Phase Shift Keying BPSK and Quadrature Phase Shift Keying QPSK
- Data Rate And Baud Rate

Day 2

Earth Station Antenna



- Earth Station Antenna types
- SNG Antennas
- Fly Away Antennas
- On the move antenna
- Maritime Antennas
- TVRO Antennas
- Pointing/Tracking

Day 3

Satellite band frequencies

- Small antennas at the Ku band
- FCC-Intelsat-ITU antenna requirements and EIRP density limitations
- Overview of satellite bands frequencies
- The electromagnetic spectrum
- The radio spectrum
- Windows to space
- L-band 1-2 GHz
- S-band 2-4 GHz
- C-band 4-8 GHz
- X-band 8-12 GHz
- Ku-band 12-18 GHz
- Ka-band 26-40 GHz

Day 4

Modern types of modulation in the communication system, satellite communication service

- Overview of modern types of modulation in the communication system
- Protocol Suite Overview
- IP and Data Networks
- IP Network Operation

Day 5

Potential security risks in AAA & wireless LAN and Other Access Technology

- IP Telephony and VoIP
- IP in the Mobile Network
- IPv6
- DNS
- DHCP
- SS7 Functions, Architecture, and the Message Transfer Part
- Security and AAA
- Wireless LAN and Other Access Technologies



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International House 185 Tower Bridge
Road London SE1 2UF United Kingdom



+44 7401 1773 35
+44 7480 775526



training@blackbird-training.com



www.blackbird-training.com

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