

Satellite Communication Systems Planning & Coordination

Telecom Engineering
Cape Town (South Africa)
13 - 17 Oct 2025

UK Traininig

PARTNER



Satellite Communication Systems Planning & Coordination

Ref: 3284_137965 **Date:** 13 - 17 Oct 2025 **Location:** Cape Town (South Africa) **Fees:** 3300 Euro

Course Description

This intensive 5-day course provides a comprehensive overview of satellite communication systems planning and coordination. Participants will gain in-depth knowledge of satellite technology, network design principles, regulatory frameworks, and best practices for implementing and managing satellite communication systems.

Learning Objectives

- Understand fundamental concepts of satellite communication systems
- Master techniques for planning and designing satellite networks
- Learn regulatory requirements and coordination procedures
- Develop skills in performance optimization and troubleshooting
- Gain practical experience through hands-on exercises and case studies

Course Modules

Day 1: Introduction to Satellite Communication Systems

- Satellite orbits and space segment basics
- Ground segment components and architecture
- Frequency bands and link budgets
- Modulation and multiple access techniques

Day 2: Satellite Network Planning and Design

- Network topology and architecture
- Capacity planning and traffic engineering
- Coverage analysis and footprint optimization
- Link budget calculations and fade margin

Day 3: Regulatory Framework and Coordination Procedures

- ITU regulations and frequency allocation
- Coordination process and interference analysis
- Licensing requirements and documentation
- International and regional regulatory bodies

Day 4: Implementation and Performance Optimization

UK Training
PARTNER



- Earth station installation and commissioning
- Network management systems and monitoring
- Quality of Service QoS parameters
- Troubleshooting and fault management

Day 5: Emerging Technologies and Future Trends

- High-throughput satellites HTS and LEO constellations
- Software-defined satellites and virtualization
- Integration with 5G and IoT networks
- Case studies and practical exercises

Practical Wins for Participants

- Ability to design and plan satellite communication networks
- Proficiency in regulatory compliance and coordination procedures
- Skills to optimize performance and troubleshoot satellite systems
- Understanding of emerging trends and technologies in the industry

A graphic of a chessboard with several chess pieces. A large gold king piece is prominent in the foreground, with a silver pawn and a silver knight nearby. In the background, there are concentric circles emanating from a point, suggesting a signal or a strategic move.

UK Training
PARTNER

Blackbird training cities



Amman (Jordan)



Amsterdam (Netherlands)

Accra (Ghana)

Annecy (France)

Baku (Azerbaijan)

Bali (Indonesia)

Bangkok (Thailand)

Bangkok (Thailand)

Barcelona (Spain)

Batumi (Georgia)

Beijing (China)

Beirut (Lebanon)

Berlin (Germany)

Birmingham (UK)

Bordeaux (France)

Boston, Massachusetts (USA)

Brussels (Belgium)

Cairo (Egypt)

Cape Town (South Africa)

Casablanca (Morocco)

Cascais (Portugal)

Copenhagen (Denmark)

Doha (Qatar)

Dubai (UAE)

Düsseldorf (Germany)

UK Training
PARTNER



Blackbird Training Category



Human Resource



Audit & Quality Assurance



Finance, Accounting, Budgeting



Marketing, Sales, Customer Service



Secretary & Admin



Law and Contract Management



Project Management



IT & IT Engineering



Supply Chain & Logistics



Management & Leadership



Professional Skills



Oil & Gas Engineering



Health & Safety



Telecom Engineering



Hospital Management



Customs & Safety



Aviation



C-Suite Training



Agile and Refinement



Blackbird training Clients



MANNAI Trading
Company WLL,
Qatar



Alumina Corporation
Guinea



Booking.com
Netherlands



Oxfam GB International
Organization,
Yemen



Capital Markets
Authority,
Kuwait



Waltersmith Petroman Oil Limited
Nigeria



Qatar National Bank
(QNB),
Qatar



Qatar Foundation,
Qatar



AFRICAN UNION ADVISORY
BOARD ON CORRUPTION,
Tanzania



KFAS
Kuwait



Reserve Bank of
Malawi,
Malawi



Central Bank of Nigeria
Nigeria



Ministry of Interior
Kingdom of Saudi Arabia
KSA



Mabruk Oil Company
Libya



Saudi Electricity
Company,
KSA



BADAN PENGELOLA
KEUANGAN Haji,
Indonesia



NATO
Italy



ENI CORPORATE
UNIVERSITY,
Italy



Gulf Bank
Kuwait



General Organization for
Social Insurance
KSA



Defence Space Administration
Nigeria



National Industries
Group (Holding),
Kuwait



Hamad Medical
Corporation,
Qatar



USAID
Pakistan



STC Solutions,
KSA



North Oil company,



EKO Electricity



Oman Broadband



UNITED NATIONS
UN.



Authority for

UK Training
PARTNER



LONDON TRAINING PROVIDER



www.blackbird-training.com



training@blackbird-training.com



+44 7480 775526 / +44 7401 177335