

5G and ORAN: Mastering Next-Gen Mobile Networks

Telecom Engineering
Dubai (UAE)
05 - 09 Oct 2025

UK Training

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5G and ORAN: Mastering Next-Gen Mobile Networks

Ref: 321712_144631 **Date:** 05 - 09 Oct 2025 **Location:** Dubai (UAE) **Fees:** 3900 **Euro**

Course Description

This comprehensive 5-day course provides in-depth knowledge of 5G and Open Radio Access Network (ORAN) technologies. Participants will explore 5G architecture, ORAN principles, interfaces, and deployment strategies. The course combines theoretical concepts with practical hands-on sessions, enabling attendees to gain real-world skills in implementing and optimizing 5G ORAN networks.

Learning Objectives

- Understand 5G architecture and its key components
- Master ORAN principles, architecture, and interfaces
- Develop skills in deploying and optimizing 5G ORAN networks
- Gain hands-on experience with ORAN implementation and troubleshooting
- Learn about emerging trends and future developments in 5G and ORAN

Course Modules

Day 1: Introduction to 5G and ORAN

- 5G architecture overview
- Evolution from traditional RAN to ORAN
- ORAN Alliance and ecosystem
- Key drivers and benefits of ORAN

Day 2: ORAN Architecture and Interfaces

- ORAN reference architecture
- Open Fronthaul specifications
- RAN Intelligent Controller (RIC)
- O-CU, O-DU, and O-RU components

Day 3: ORAN Deployment Strategies

- Virtualization and cloud-native principles
- Network slicing in ORAN
- Integration with 5G Core
- Security considerations in ORAN

A graphic of a chessboard with several chess pieces (king, queen, rook, knight, and pawns) on it. The pieces are gold and silver. The text 'UK Training PARTNER' is overlaid on the right side of the chessboard.

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Day 4: ORAN Implementation and Optimization

- xApps and rApps development
- AI/ML in ORAN for network optimization
- Performance management and monitoring
- Troubleshooting ORAN networks

Day 5: Advanced Topics and Future Trends

- Open RAN testing and certification
- Emerging use cases for ORAN
- Beyond 5G: 6G and future radio technologies
- Hands-on project: ORAN network design

Practical Wins for Participants

- Ability to design and deploy 5G ORAN networks
- Hands-on experience with ORAN interfaces and components
- Skills to develop and optimize xApps and rApps
- Understanding of AI/ML applications in ORAN for network enhancement

A graphic of a chessboard with several chess pieces (king, queen, rook, knight, and pawns) in gold and silver. The pieces are arranged on a checkered board, with the king and queen in the foreground. The text 'UK Training' is written above the word 'PARTNER' in a bold, sans-serif font.

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