XCELERATE TRAINING INSTITUTE

your learning & development partner

TELECOMMUNICATION

Network Operations Center (NOC) &Wireless 2G, 3G, 4G RAN, CORE & Digital Radio Operations

DURATION	LANGUAGE	FORMAT
5 days	**English**	**Classroom / Online**

Upcoming dates

Dates	Venue	Format	Fee
15 – 19 Mar 2027	Live online	Online (live)	**€1,200**
26 – 30 Apr 2027	Kuala Lumpur	Classroom	**€3,800**
27 Sep – 1 Oct 2027	Live online	Online (live)	**€1,200**

Register or ask a question

Online: x8ti.com/course/network-operations-center-noc-wireless-2g-3g-4g-ran-…

+491631686678 · info@x8ti.com

Network Operations Center (NOC) &Wireless 2G, 3G, 4G RAN, CORE & Digital Radio Operations

Introduction

This course by Xcelerate Training Institute focuses on the critical role of Network Operations Centers (NOCs) in ensuring the seamless operation of telecommunication networks. It explores the architecture and management of complex network infrastructures, including core network elements and wireless technologies. The course emphasizes the importance of network reliability, efficiency, and security.

Learning Objectives

Upon completion, participants will gain a comprehensive understanding of NOC operations, network technologies, and management tools. They will be able to design, implement, and maintain network infrastructure, troubleshoot network issues, and optimize network performance.

Training Methodology

The course combines theoretical knowledge with practical exercises to provide a well-rounded learning experience. Participants will engage in interactive discussions, case studies, and hands-on activities.

Benefits for Your Organisation

Organizations investing in this course can expect improved network performance, reduced downtime, and enhanced customer satisfaction.

Benefits for You

Individuals will develop in-depth knowledge of network operations, acquire valuable industry certifications, and advance their careers in the telecommunications field.

Who Should Attend

This course is designed for network engineers, technicians, and professionals involved in network operations and management.

Course Outline

Introduction to NOC

- Overview of Network Operations Centers (NOCs)
- Role and importance of NOCs in network management
- Key responsibilities of NOC personnel

NOC Components and Architecture

- Core components of a NOC
- Network monitoring and management tools
- NOC architecture and design principles

Wireless Network Operations

- Introduction to wireless networks (2G, 3G, 4G)
- Radio Access Network (RAN) operations
- Core network operations and management

Digital Radio Operations

- Overview of digital radio technologies
- Operation and maintenance of digital radio systems
- Integration with existing communication networks

Network Monitoring and Management

- Techniques for network performance monitoring
- Incident detection and response
- Network troubleshooting and problem resolution

Security in NOC and Wireless Networks

- Ensuring secure communication
- Threat detection and mitigation
- Best practices for network security

Advanced Wireless Technologies

- Introduction to LTE and LTE-Advanced
- Future trends in wireless communication (e.g., 5G)
- Hands-on training with advanced wireless technologies

Practical Exercises and Scenarios

- Simulated network scenarios
- Hands-on practice with NOC tools and wireless devices
- Team-based exercises and drills

Maintenance and Troubleshooting

- Routine maintenance of network equipment
- Troubleshooting common network issues
- Best practices for device care and longevity

Course Review and Assessment

- Recap of key concepts
- Final assessment and feedback
- Certification and next steps

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Registration Form

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Preferred dates: ..... Venue or online: .....

Duration: 5 days Language: .....

Please complete and email this form to us, or register online. We confirm your place and send the invoice within one working day.

Delegate information

Full name (Mr / Ms / Dr / Eng): .....

Position: ..... Telephone / mobile: .....

Official email: ..... Personal email: .....

Company information

Company name: .....

Address: .....

City / country: ..... VAT / tax number: .....

Person responsible for training & development

Full name (Mr / Ms / Dr / Eng): .....

Position: ..... Telephone / mobile: .....

Email: .....

Payment

☐ Please invoice me ☐ Please invoice my company

Signature: ..... Date: .....

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Email this form
info@x8ti.com

Register online
Open the course page