XCELERATE TRAINING INSTITUTE

your learning & development partner

TELECOMMUNICATION

LTE Planning and Optimization Training Course

DURATION	LANGUAGE	FORMAT
5 days	English	Classroom / Online

Upcoming dates

Dates	Venue	Format	Fee
4 – 8 Jan 2027	Barcelona	Classroom	€4,800
28 Jun – 2 Jul 2027	Live online	Online (live)	€1,800
6 – 10 Dec 2027	Live online	Online (live)	€1,800

Register or ask a question

Online: x8ti.com/course/lte-planning-and-optimization-training-course-2/

+491631686678 · info@x8ti.com

LTE Planning and Optimization Training Course

Introduction

This course by Xcelerate Training Institute provides a comprehensive understanding of LTE network planning and optimization. It covers the fundamentals of LTE technology, network architecture, and performance metrics. The course emphasizes practical applications, including site surveys, testing, and optimization techniques.

Learning Objectives

Upon completion, participants will gain a solid understanding of LTE network planning and optimization principles. They will be able to analyze network performance, identify optimization opportunities, and contribute to network improvement initiatives.

Training Methodology

The course combines theoretical knowledge with practical examples to provide a comprehensive learning experience. Participants will engage in interactive discussions, case studies, and hands-on activities to apply their knowledge.

Benefits for Your Organisation

Organizations investing in this course can expect improved network performance, enhanced customer experience, and cost savings through optimized network operations.

Benefits for You

Individuals will develop expertise in LTE network planning and optimization, expanding their career opportunities in the telecommunications industry.

Who Should Attend

This course is designed for engineers and technical professionals involved in the planning, design, and optimization of LTE networks.

Course Outline

Introduction to LTE

Overview of LTE Technology

- Introduction to LTE: evolution and key features
- LTE architecture and components
- Differences between LTE and previous generations

Fundamentals of Network Planning

- Importance of planning in LTE deployment
- Key planning parameters and considerations

- Overview of tools used in LTE planning

Network Design Principles

Radio Network Planning

- Coverage and capacity planning
- Site selection criteria and considerations
- Antenna types and radiation patterns

Traffic Modeling and Dimensioning

- Understanding traffic patterns and user behavior
- Tools for traffic modeling
- Dimensioning of network resources based on traffic demand

Optimization Techniques

Key Performance Indicators (KPIs)

- Overview of KPIs in LTE networks
- Monitoring and analyzing network performance
- Tools for performance measurement

Optimization Strategies

- Techniques for improving network performance
- RF optimization methods
- Advanced optimization tools and software

Advanced Topics in LTE Optimization

Interference Management

- Types of interference in LTE networks
- Techniques for interference mitigation
- Use of advanced features like ICIC and eICIC

Self-Organizing Networks (SON)

- Introduction to SON concepts
- Benefits and challenges of SON in LTE
- Implementation and management of SON features

Practical Applications and Future Trends

Case Studies and Real-World Applications

- Review of successful LTE planning and optimization projects
- Lessons learned from real-world implementations
- Group discussion on challenges and solutions

Future Trends in LTE and Beyond

- Evolution from LTE to 5G
- Emerging technologies and their impact on planning and optimization
- Preparing for future challenges in network management

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Registration Form

LTE Planning and Optimization Training Course

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

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