XCELERATE TRAINING INSTITUTE

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TELECOMMUNICATION

Public Safety LTE Network Architecture

DURATION	LANGUAGE	FORMAT
10 days	English	Classroom / Online

Upcoming dates

Dates	Venue	Format	Fee
4 – 15 Jan 2027	Kuala Lumpur	Classroom	€7,200
28 Jun – 9 Jul 2027	Live online	Online (live)	€1,800
6 – 17 Dec 2027	Live online	Online (live)	€1,800

Register or ask a question

Online: x8ti.com/course/public-safety-lte-network-architecture/

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Public Safety LTE Network Architecture

Introduction

Introdction

This course by Xcelerate Training Institute provides a comprehensive understanding of Public Safety LTE (PS LTE) network architecture. It focuses on the evolution of public safety communications from traditional systems to LTE-based solutions, addressing the challenges and opportunities presented by this transition. The course emphasizes the importance of PS LTE in enhancing public safety operations and enabling critical communication services.

Learning Objectives

Upon completion, participants will gain a solid understanding of PS LTE network architecture, key components, and deployment considerations. They will be able to evaluate the integration of PS LTE with existing public safety systems and develop strategies for network modernization.

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 public safety capabilities, and cost savings through optimized network infrastructure.

Benefits for You

Individuals will develop expertise in PS LTE technology, expanding their career opportunities in the public safety and telecommunications industry.

Who Should Attend

This course is designed for professionals working in public safety organizations, network operators, and system integrators involved in the planning and deployment of PS LTE networks.

Course Outline

Introduction to LTE and Public Safety

- Overview of LTE technology
- Importance of LTE in public safety
- Key features and benefits of LTE for public safety

LTE Network Architecture

- Basic LTE network architecture

- Core components (eNB, MME, S-GW, P-GW)
- Interfaces and protocols

Public Safety Requirements

- Reliability and availability
- Low latency and high capacity
- Priority access and quality of service (QoS)

LTE for Public Safety Applications

- Voice over LTE (VoLTE)
- Video streaming and conferencing
- Data services and applications

LTE Network Design and Deployment

- Design considerations for public safety LTE networks
- Deployment strategies (public vs. private networks)
- Integration with existing communication systems

LTE Security and Reliability

- Ensuring secure communication
- Redundancy and failover mechanisms
- Disaster recovery and resilience

Advanced LTE Features

- Public Warning Systems (PWS)
- Earthquake and Tsunami Warning Systems (ETWS)
- Commercial Mobile Alert System (CMAS)

Hands-On Training and Simulations

- Practical exercises with LTE equipment
- Simulated public safety scenarios
- Team-based drills and exercises

Maintenance and Troubleshooting

- Routine maintenance of LTE equipment
- Troubleshooting common 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

Public Safety LTE Network Architecture

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

Duration: 10 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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Register online
Open the course page