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 ????? 2027 | Kuala Lumpur | Classroom | €7?200 |
| 28 ????? – 9 ????? 2027 | Live online | Online (live) | €1?800 |
| 6 – 17 ?????? 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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**Email this form**
info@x8ti.com

**Register online**
Open the course page