XCELERATE TRAINING INSTITUTE

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TELECOMMUNICATION

# LTE EPC Architecture Training

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

## Upcoming dates

| Dates | Venue | Format | Fee |
|---|---|---|---|
| 1 – 5 Mar 2027 | Live online | Online (live) | **€1,600** |
| 13 – 17 Sep 2027 | Live online | Online (live) | **€1,600** |
| 11 – 15 Oct 2027 | Amman | Classroom | **€5,500** |

### Register or ask a question

Online: x8ti.com/course/lte-epc-architecture-training/

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# LTE EPC Architecture Training

## Introduction

This course by xcelerate Training Institute offers an in-depth exploration of LTE technology, emphasizing its role in driving the evolution of mobile networks. It delves into the key features and benefits of LTE, providing insights into its potential to transform the telecommunications industry. The course is designed to equip participants with a comprehensive understanding of LTE's architecture, performance, and deployment strategies.

## Learning Objectives

Upon completion, participants will gain a solid understanding of LTE technology, its architecture, and key performance indicators. They will be able to evaluate LTE deployment options and identify opportunities for network optimization.

## 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 increased revenue through efficient LTE deployment.

## Benefits for You

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

## Who Should Attend

This course is designed for engineers, network planners, and business professionals involved in the planning, design, and operation of LTE networks.

## Course Outline

### Introduction to LTE and EPC

### Overview of LTE

- Introduction to LTE technology and its evolution
- Key features and benefits of LTE
- Overview of LTE network components

### Understanding EPC Architecture

- Introduction to the Evolved Packet Core (EPC)

- EPC components: MME, SGW, PGW, HSS
- Functional roles of each component in the EPC

## Key EPC Components

### Mobility Management Entity (MME)

- Functions of the MME in LTE networks
- User plane vs. control plane signaling
- Interaction with other EPC components

### Serving Gateway (SGW) and Packet Data Network Gateway (PGW)

- Roles of SGW and PGW in data forwarding
- Handling of user data and sessions
- Policy and charging rules in PGW

## User Data and Management

### Home Subscriber Server (HSS)

- Overview of HSS and its importance
- User profiles and authentication processes
- Role of HSS in mobility management

## Quality of Service (QoS) in EPC

- Understanding QoS parameters and policies
- Implementation of QoS in LTE networks
- Techniques for ensuring service quality

## Security and Future Trends

### Security in EPC

- Security architecture of the EPC
- Authentication and encryption mechanisms
- Challenges and solutions for securing EPC

### Future Trends in EPC Architecture

- Evolving EPC towards 5G Core
- Integration with SDN and NFV
- Future challenges and opportunities in EPC

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# Registration Form

## LTE EPC Architecture Training

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: .....

**Call**
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**Email this form**
info@x8ti.com

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Open the course page