XCELERATE TRAINING INSTITUTE

your learning & development partner

TELECOMMUNICATION

# 4G LTE

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

## Upcoming dates

| Dates | Venue | Format | Fee |
|---|---|---|---|
| 1 – 5 ???? 2027 | Live online | Online (live) | €1?600 |
| 13 – 17 ?????? 2027 | Live online | Online (live) | €1?600 |
| 11 – 15 ?????? 2027 | France | Classroom | €3?800 |

### Register or ask a question

Online: staging.x8ti.com/course/4g-lte/

+491631686678 · info@x8ti.com

# 4G LTE

## Introduction

The rapid growth of smartphones and increasing demands for higher data speeds have driven the evolution of mobile networks. LTE technology emerged as a response to these challenges, offering significant improvements over previous generations. This course delves into the intricacies of LTE, exploring its architecture, protocols, and performance enhancements.

## Learning Objectives

This course by Xcelerate Training Institute aims to equip wireless professionals with a comprehensive understanding of LTE technology. Participants will gain expertise in LTE architecture, protocols, and performance metrics. The course emphasizes practical application and problem-solving skills through hands-on exercises and industry insights.

## Training Methodology

The course employs a variety of teaching methods, including lectures, group discussions, case studies, and hands-on activities. Real-world challenges and industry best practices are integrated into the curriculum to enhance learning.

## Benefits for Your Organisation

Organizations that invest in this course will equip their workforce with the skills needed to address the challenges of the ever-evolving wireless industry.Consequently, employees will gain expertise in LTE technology, thereby leading to improved network performance, customer satisfaction, and overall organizational success.As a result, employees will gain expertise in LTE technology, contributing to improved network performance, customer satisfaction, and overall organizational success.

## Benefits for You

Participants will develop a deep understanding of LTE principles and technologies. The course enhances problem-solving and analytical skills, preparing individuals for advanced roles in the wireless industry.

## Who Should Attend

This course is designed for engineers and professionals working in the wireless industry, including those involved in network planning, optimization, and operations.

## Course Outline

The course covers the following modules:

### Wireless Evolution:

Overview of wireless technologies, including 2G and 3G, leading to the development of LTE.

## LTE Introduction:

Key features, architecture, and performance objectives of LTE.

## LTE Protocol Stack:

In-depth exploration of LTE protocol layers, including RRC, MAC, RLC, PDCP, and NAS.

## LTE QoS:

Quality of Service mechanisms and their role in LTE networks.

## LTE PHY Layer:

Fundamentals of physical layer technologies, including modulation, coding, and multiple access techniques.

## Log Analysis:

Practical exercises using Wireshark to analyze LTE network behavior

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# Registration Form

## 4G LTE

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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