XCELERATE TRAINING INSTITUTE
your learning & development partner

TELECOMMUNICATION

Mission-Critical Push-to-Talk (MCPTT)

DURATION	LANGUAGE	FORMAT
10 days	**English**	**Classroom / Online**

Upcoming dates

Dates	Venue	Format	Fee
3 – 14 May 2027	Live online	Online (live)	**€1,800**
14 – 25 Jun 2027	Bahrain	Classroom	**€7,200**
8 – 19 Nov 2027	Live online	Online (live)	**€1,800**

Register or ask a question

Online: x8ti.com/course/mission-critical-push-to-talk-mcptt/

+491631686678 · info@x8ti.com

Mission-Critical Push-to-Talk (MCPTT)

Introduction

Introdction

This course by Xcelerate Training Institute focuses on the integration of mission-critical push-to-talk (MCPTT) capabilities into LTE networks to enhance public safety communications. It explores the challenges faced by traditional public safety networks in meeting the demands of modern communication services, such as high-speed data transfer and multimedia. The course highlights the benefits of MCPTT in providing reliable, secure, and efficient voice and data services for public safety personnel.

Learning Objectives

Upon completion, participants will gain a comprehensive understanding of MCPTT technology, its integration with LTE networks, and its application in public safety. They will be able to evaluate the feasibility of implementing MCPTT solutions 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 MCPTT 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 MCPTT and LTE networks.

Course Outline

Introduction to MCPTT

- Overview of MCPTT
- Importance of MCPTT in public safety
- Key features and benefits of MCPTT

MCPTT Technology and Standards

- Understanding MCPTT technology

- 3GPP standards for MCPTT
- Evolution from LMR to MCPTT

MCPTT Architecture and Components

- MCPTT network architecture
- Core components and their functions
- Integration with existing communication systems

MCPTT Devices and Equipment

- Types of MCPTT devices
- Features and specifications of MCPTT devices
- Hands-on training with MCPTT devices9

MCPTT Operation and Usage

- Basic operation of MCPTT devices
- Making and receiving calls
- Group and broadcast calling
- Emergency alerts and notifications

Security and Reliability in MCPTT

- Ensuring secure communication
- Encryption and authentication methods
- Reliability and redundancy in MCPTT networks

Advanced MCPTT Features

- Location tracking and sharing
- Real-time video communication
- Integration with other public safety tools (e.g., CAD, situational awareness apps)

Practical Exercises and Scenarios

- Simulated emergency scenarios
- Hands-on practice with MCPTT devices
- Team-based exercises and drills

Maintenance and Troubleshooting

- Routine maintenance of MCPTT devices
- 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

Copyright and intellectual property
This course, "Mission-Critical Push-to-Talk (MCPTT)", is an original course by Xcelerate Training Institute. All materials, content and structure are the intellectual property of Xcelerate Training Institute. Reproduction, distribution or use of any part of this course without written consent is prohibited.

Registration Form

Mission-Critical Push-to-Talk (MCPTT)

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: .....

Call
+491631686678

Email this form
info@x8ti.com

Register online
Open the course page