XCELERATE TRAINING INSTITUTE

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TELECOMMUNICATION

Distributed Antenna System (DAS)

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	Barcelona	Classroom	€3,800

Register or ask a question

Online: staging.x8ti.com/course/distributed-antenna-system-das/

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Distributed Antenna System (DAS)

Introduction

This course by Xcelerate Training Institute provides a comprehensive understanding of Distributed Antenna Systems (DAS). It covers the fundamentals, recent advancements, and practical applications of DAS technology. The course emphasizes the importance of DAS in enhancing wireless network coverage and capacity, particularly in challenging environments such as indoor spaces and dense urban areas.

Learning Objectives

Upon completion, participants will gain a solid understanding of DAS technology, system design, and deployment. They will be able to analyze network requirements, select appropriate DAS components, and optimize network performance.

Training Methodology

The course combines theoretical knowledge with practical applications through a variety of teaching methods, including lectures, group discussions, case studies, and hands-on exercises.

Benefits for Your Organisation

Organizations investing in this course can expect improved network performance, increased customer satisfaction, and cost savings through optimized network infrastructure.

Benefits for You

Individuals will develop in-depth knowledge of DAS technology, enhancing their career prospects in the telecommunications industry.

Who Should Attend

This course is designed for engineers, technicians, and professionals involved in wireless network planning, design, and operations.

Course Outline

Introduction to DAS

Overview of DAS

- Definition and purpose of DAS
- History and evolution of DAS technology

Importance of DAS in Modern Networks

- Addressing coverage challenges
- Enhancing capacity in high-demand environments

DAS Components and Architecture

Key Components of DAS

- Antennas, remote units, and headend equipment
- Fiber optics vs. coaxial cable systems

DAS Topologies

- Centralized vs. decentralized DAS
- Hybrid systems and their applications

DAS Design Principles

Site Survey and Planning

- Assessing coverage needs and building requirements
- RF propagation and modeling tools

Design Considerations

- Capacity planning and user demand
- Interference management and mitigation

Installation and Implementation

Installation Best Practices

- Equipment installation guidelines
- Cable management and routing

Integration with Existing Networks

- Connecting DAS to macro networks
- Interfacing with various technologies (LTE, 5G)

DAS Operation and Maintenance

Network Monitoring and Management

- Tools for real-time monitoring
- Performance metrics and KPIs

Troubleshooting Common Issues

- Identifying and resolving connectivity problems
- Maintaining optimal performance

Regulatory and Compliance Issues

Understanding Regulatory Requirements

- FCC guidelines and spectrum management
- Building codes and safety regulations

Compliance Testing

- Testing and certification processes for DAS

Advanced DAS Concepts

Future Trends in DAS Technology

- Integration with small cells and 5G

- The role of virtualization and cloud-based DAS

Case Studies

- Successful DAS implementations in various sectors (stadiums, hospitals, airports)

Copyright and intellectual property

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Registration Form

Distributed Antenna System (DAS)

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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Register online
Open the course page