

Course 820 LEO, MEO and GSO System and Service Integration

Lyon (France)

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UK Traininig

PARTNER



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Introduction

The satellite communication industry has witnessed rapid advancements with the deployment of LEO Low Earth Orbit, MEO Medium Earth Orbit, and GSO Geostationary Orbit systems. As these systems continue to expand globally, organizations across multiple sectors are facing new opportunities and challenges in integrating satellite-based services into their operations.

Course 820 LEO, MEO, and GSO System and Service Integration is designed to provide participants with the knowledge and practical skills to understand, evaluate, and apply satellite system integration effectively. It is particularly relevant for executives, team leaders, and technical specialists working in industries such as telecommunications, oil and gas, financial services, government, project management, and beyond.

The practical value of this program lies in bridging the gap between satellite theory and real-world applications. Participants will gain insights into orbital mechanics, satellite architecture, service models, and integration strategies that can directly enhance organizational performance, improve service delivery, and strengthen strategic decision-making.

Course Objectives

By the end of this course, participants will be able to:

- Understand the fundamentals of LEO, MEO, and GSO satellite systems.
- Identify the key differences, advantages, and limitations of each orbit type.
- Explore satellite architectures and communication payloads.
- Apply integration strategies for combining terrestrial and satellite networks.
- Conduct performance evaluations for satellite-based services.
- Analyze use cases across industries, including telecom, finance, and government.
- Address security, regulatory, and operational challenges in satellite integration.
- Leverage global best practices for planning and deploying hybrid communication systems.

Course Outlines

Day 1: Fundamentals of Satellite Systems

- Introduction to LEO, MEO, and GSO constellations.
- Orbital mechanics and system coverage principles.
- Key differences between orbit types and their applications.
- Satellite architecture and payload basics.
- Frequency bands used in satellite communications.
- Overview of ground station functions.

Day 2: LEO System Architecture and Services



- Characteristics and advantages of LEO constellations.
- Low-latency communication models.
- Integration of LEO with terrestrial networks.
- Examples of leading LEO constellations.
- Performance evaluation metrics for LEO services.
- Operational and regulatory considerations.

Day 3: MEO and GSO System Design

- MEO satellites: features, coverage, and use cases.
- GSO satellites and their role in global communications.
- Bandwidth and spectrum allocation strategies.
- System reliability and redundancy approaches.
- Comparison between MEO/GSO and LEO systems.
- Industry-specific case studies.

Day 4: Service Integration and Applications

- Integration models for multi-orbit constellations.
- Hybrid solutions: satellite and terrestrial network convergence.
- Tools and platforms for service integration.
- Security challenges in satellite service deployment.
- Operational strategies for seamless service delivery.
- Testing and validation of integrated systems.

Day 5: Practical Applications and Case Studies

- Hands-on analysis of service integration scenarios.
- Comparative evaluation of multi-orbit solutions.
- Performance testing with KPIs.
- Developing integration roadmaps for organizations.
- Group exercises: problem-solving in real-world scenarios.
- Final review and recommendations.

Why Attend this Course? Wins & Losses!

- Gain comprehensive knowledge of LEO, MEO, and GSO systems.
- Learn integration techniques for hybrid communication networks.
- Enhance analytical skills for evaluating system performance.
- Access practical case studies from multiple industries.
- Strengthen decision-making in adopting satellite-based services.
- Improve organizational readiness for next-generation communications.
- Understand regulatory, security, and operational frameworks.
- Acquire hands-on experience with integration models and tools.

Conclusion

Course 820 LEO, MEO, and GSO System and Service Integration provides a comprehensive framework for understanding and applying multi-orbit satellite systems in practical contexts. By covering theoretical foundations



hands-on practices, and industry-specific case studies, this course empowers professionals to confidently evaluate, integrate, and optimize satellite services within their organizations.

The course is highly relevant for industries seeking to expand connectivity, improve resilience, and stay competitive in a global market where satellite communications are increasingly central to digital transformation. Participants will leave with actionable insights, practical tools, and strategies to address both current and future challenges in satellite system integration.



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