BLACKBIRD FOR TRAINING

Senior Electrotech Course

8 – 12 February 2027
Barcelona (Spain)



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Ref: 3255027_195649 **Date:** 8 – 12 February 2027 **Location:** Barcelona (Spain) **Fees:** 5900 GBP

Introduction

In today's rapidly evolving technical landscape, organizations require senior-level professionals who combine advanced electrotechnical expertise with strong leadership and project management capabilities. The Senior Electrotech Course is designed to meet this demand by equipping participants with high-level technical knowledge and practical skills across electrical, electronic, and telecommunications systems, alongside effective management of complex technical projects.

This intensive program is tailored for executives, technical leaders, senior engineers, and specialists who are responsible for overseeing critical systems and ensuring operational excellence. Through a structured, hands-on approach, participants will gain the confidence to manage advanced systems, mitigate risks, improve reliability, and lead technical teams in demanding operational environments.

Course Objectives

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

- Develop advanced technical and leadership skills in electrical and electronic engineering.
- Manage high-voltage systems safely and efficiently.
- Oversee HELM systems to enhance operational performance and safety.
- Maintain and troubleshoot AMERC GMDSS marine radio communication systems.
- Gain in-depth technical knowledge of AMERC ENEM systems.
- Apply telecommunications engineering principles in complex environments.
- Manage large-scale technical projects with effective control of risks, budgets, and timelines.
- Apply international standards and best practices to real-world technical challenges.

Course Outlines

Day 1: Advanced Electrotechnical Systems & Technical Leadership

- Overview of advanced electrical and electronic systems.
- Roles and responsibilities of senior electrotechnical professionals.
- Leadership and decision-making in technical environments.
- International standards, regulations, and compliance requirements.
- Risk identification and mitigation in complex systems.
- Case study: Managing critical electrotechnical operations.



Day 2: HELM Systems Management

- Fundamentals of HELM system operations.
- Enhancing efficiency, safety, and reliability in HELM systems.
- Risk analysis and compliance with international HELM standards.
- Preventive and periodic maintenance planning.
- Performance monitoring and system optimization techniques.
- Practical workshop: HELM system performance evaluation.

Day 3: High Voltage Systems Management

- Principles of high-voltage electrical systems.
- Safety regulations and operational controls.
- Preventive, predictive, and corrective maintenance strategies.
- Fault detection, failure analysis, and troubleshooting.
- Improving system reliability and reducing operational downtime.
- Practical training on safe operation and maintenance procedures.

Day 4: AMERC GMDSS & AMERC ENEM Systems

- Introduction to AMERC GMDSS systems and maritime communication requirements.
- Maintenance, testing, and fault resolution of marine radio systems.
- Maritime communication regulations and international standards.
- Detailed study of AMERC ENEM system components and functions.
- Performance verification and system readiness assessment.
- Practical exercises and real-world operational scenarios.

Day 5: Telecommunications Engineering & Technical Project Management

- Advanced telecommunications system architectures.
- System design, integration, and implementation strategies.
- Managing telecommunications systems in operational environments.
- Principles of technical project management.
- Managing risks, costs, schedules, and resources.
- Final applied case study: End-to-end management of a technical project.

Why Attend This Course: Wins & Losses!

- Gain advanced technical expertise across multiple critical systems.
- Acquire practical skills that can be immediately applied in the workplace.
- Strengthen leadership and management capabilities for technical teams.
- Learn international best practices from experienced industry professionals.
- Enhance career progression through senior-level technical training.
- Expand professional networks with peers and industry experts.
- Improve organizational readiness for digital and technical transformation.



Conclusion

The Senior Electrotech Course provides a comprehensive pathway for professionals seeking to lead and manage advanced technical systems with confidence and efficiency. By combining electrotechnical expertise, telecommunications engineering, and project management, this course prepares participants to handle complex operational challenges, improve system reliability, and drive technical excellence.

Upon completion, participants will be well-positioned to lead critical systems, optimize performance, and contribute strategically to organizational success. This course represents a powerful investment in both professional growth and long-term operational sustainability.

