MERCURY

Advanced Shipping and Port Management: Smart Maritime Operations and Logistics Excellence

9 – 20 August 2027
Barcelona (Spain)



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Advanced Shipping and Port Management: Smart Maritime Operations and Logistics Excellence

Ref: 121624_1078864 **Date:** 9 – 20 August 2027 **Location:** Barcelona (Spain) **Fees:** 9500 Euro

Introduction:

This advanced training program provides participants with practical and strategic knowledge in shipping and port management, focusing on maritime operations, logistics integration, port efficiency, international regulations, sustainability, and digital transformation. The program equips professionals with the capabilities required to manage modern maritime operations and enhance port competitiveness in global trade.

Target Audience:

- Port and terminal managers.
- Shipping and logistics professionals.
- Supply chain specialists.
- Maritime operations coordinators.
- Freight forwarding professionals.
- Port safety and compliance officers.
- Import and export managers.
- Maritime consultants and planners.

Training Objectives:

At the end of this program, participants will be able to:

- Understand advanced shipping and port operations.
- Improve maritime logistics and terminal efficiency.
- Strengthen compliance with international maritime regulations.
- Enhance operational planning and risk management.
- Develop smart port and digital transformation knowledge.
- Improve leadership and strategic decision-making in maritime environments.
- Manage shipping and port operations effectively.
- Optimize cargo handling and terminal activities.
- Apply maritime laws and safety regulations.
- Improve logistics and supply chain integration.
- Implement digital technologies in port operations.
- Develop sustainable and efficient maritime strategies.

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Targeted Competencies:

- Port operations management.
- Maritime logistics coordination.
- Shipping documentation and compliance.
- Risk and safety management.
- Smart port technologies.
- Strategic maritime planning.
- Leadership in maritime operations.

Course Content:

Unit One, Fundamentals of Shipping and Port Management:

- Global shipping industry overview.
- Types of ports and shipping services.
- Maritime trade and logistics concepts.
- Port authority functions.
- Shipping market structure.
- Modern maritime challenges.

Unit Two, Port Operations and Terminal Management:

- Port infrastructure and terminal layout.
- Cargo handling operations.
- Berth allocation and vessel scheduling.
- Container terminal management.
- Yard and storage operations.
- Port productivity improvement.

Unit Three, Shipping Operations and Maritime Logistics:

- Voyage and fleet operations.
- Freight forwarding processes.
- Cargo documentation procedures.
- Multimodal transportation systems.
- Customs and trade facilitation.
- Supply chain integration.

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Unit Four, Maritime Laws and Regulatory Compliance:

- International maritime regulations.
- SOLAS and MARPOL standards.
- ISPS Code and port security.
- Maritime contracts and liabilities.
- Customs compliance requirements.
- Regulatory inspection procedures.

Unit Five, Maritime Safety and Risk Management:

- Safety management systems.
- Operational risk assessment.
- Emergency response planning.
- Dangerous goods handling.
- Cybersecurity in maritime operations.
- Incident investigation methods.

Unit Six, Smart Ports and Digital Transformation:

- Smart port technologies.
- Port automation systems.
- Artificial intelligence applications.
- IoT in maritime operations.
- Blockchain in shipping documentation.
- Data analytics for port performance.

Unit Seven, Financial and Commercial Port Management:

- Port financial structures.
- Shipping cost analysis.
- Port tariff systems.
- Budgeting and cost control.
- Maritime investment planning.
- Commercial shipping strategies.

Unit Eight, Sustainable Shipping and Green Ports:

- Green port initiatives.
- Carbon emission reduction.
- Energy-efficient shipping operations.
- Waste and ballast water management.
- Environmental compliance systems.
- Sustainable maritime development.

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Unit Nine, Strategic Leadership in Maritime Operations:

- Strategic planning in ports.
- Leadership in maritime organizations.
- Performance management systems.
- Change management strategies.
- Stakeholder communication.
- Crisis leadership and resilience.

Unit Ten, Future Trends in Shipping and Port Management:

- Smart maritime ecosystems.
- Autonomous shipping technologies.
- Future port development trends.
- Digital supply chain integration.
- Innovation in maritime logistics.
- Global maritime industry challenges.