



## Professional Education Programs

### Course **Vessel Logistics Planning Loading in the Maritime Industry**

**Overview** The course focuses on providing managers with the necessary analytical and managerial skills to deal with all aspects of vessel logistics. The course introduces mathematical modelling techniques and tools for modelling and finding optimal profit solution to problems ranging from contract negotiation to managing inventory to fleet management. It exposes students to advanced tools for management of transportation and fleet assignment.

**Objectives** The objectives of this course are the following:  
To introduce the students to strategic supply chain management  
To enable the students to model various logistics problems as optimization or decision tree problems and to enable students to use tools for solving those problems  
To provide students with all necessary skills for solving problems related to Operations Management & Planning, Distribution (transportation, fleet management), Procurement & Purchasing, Location etc.

### Who should attend

**Prerequisites**

- Calculus, Basic knowledge of Windows. Middle-level management experience a plus but not required.
- Middle-level and upper level managers who want to develop the analytical and managerial skills to optimally manage their logistics tasks.

**Duration**

- 3 days, 24 hours
- November 22,23,24, 2010
- 9:30-16:15

**Instructor** Dr I. Christou, AIT Associate Professor

**Course outline**

- History of Logistics and Supply Chain Management
- Strategic Supply Chain Management
- Mathematical Modeling Techniques and Tools for Logistics Problem Solving (GAMS, Vanguard Studio, other tools)
- Forecasting Techniques & Tools
- Operations Management for Maritime Industry
- Distribution Systems
- Transportation Problems
- Performance Indices and Financial and Cost Accounting
- Inventory Control
- Location Theory & Transportation

Contracts & Auctions  
Session 1: Strategic Supply Chain Management, Forecasting, Cost/Financial Accounting and How they are related





## Professional Education Programs

- Case-studies: IKEA, Wal-Mart, Dell, Nokia, etc.
- Session 2: Mathematical Modeling and Optimization Tools for Solving Practical SCM Problems
- Lab 1
- Session 3: Operations Management, Inventory Control
- Lab 2
- Session 4: Distribution Systems & Transportation
- Lab 3
- Session 5: Contracts and Auctions

### Tuition Fee

Single Participation: 800,00€

[Discount Policy](#)

[Cancelation Policy](#)

### Program Registration

<http://hermes.ait.gr/registrations/multiple.php?prog=252>

### Contact

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