

Maritime Chain Cost Analysis

Credits: 3

Language of Instruction: English

Faculty: Edwin van Hassel

Program Learning Outcome

- Students have knowledge on the modeling of the maritime supply chain.
- Students acquire analytic skills to assess improvements and changes in different phases of the maritime supply chain.
- Students get a more in-depth insight in current challenges in the maritime supply chain (greening, increase in capacity, etc.).

Course content

- Day 1: Intro maritime supply chain modeling & model usage (theory lessons)
- Day 2: theory lessons on alternative fuels in the morning + Assignment 1: Impact of alternative fuels on cost for vessel owners and chain.
- Day 3: theory lessons on port investments in the morning + Assignment 2: Impact of port enlargement project for the port authority & chain.
- Day 4: theory lessons on disruptions and D&D + Assignment 3: Impact of re-routing in the transport chain.
- Day 5: Presentations of the results of the different case studies

Pre-requisites

In this course the analysis of different emerging issues in the overall maritime supply chain are analyzed. The students are supplied with a model that can be used for making the analysis. At the start of the course, this model is explained and a short demo is given. After this theoretical introduction, 3 different cases will be developed. One on the maritime part of the supply chain (alternative fuels), one on the port phase (increase the port capacity) and one on the hinterland phase of the chain (improving the intermodal transport). Each case will be developed on one day where first a theoretical introduction is given, followed by working time to develop the case. All three cases are clustered in a single report with deadline after the course. On the last day of the course, a presentation will be given by the students to explain the main insights of their research.

Method of Instruction

Lecture	A lecture is a presentation given to a group of students, in which the lecturer conveys the material to the students. The students can be actively involved in the lecture by asking questions, participating in a discussion, completing a short assignment etc.
Practice sessions	The students make exercises concerning the learning content while they are supervised by a lecturer.
Case Study	Students gain problem solving skills through analyzing concrete and

	realistic cases.
Presentation	A way for students to share with others what they have learned. It is also a chance to challenge and expand on their understanding of the topic by having others ask questions.
Paper	Students investigate a business problem and make a written report.

Assessment Method & Criteria

Method	Weighting (%)	Retake (yes/no)
Presentation and formulating questions	30	No
Report	70	yes

Required Study Materials

See Brightspace (after enrolment).

Academic Integrity

This course is subject to the Code of Conduct and the Examination Regulations of Antwerp Management School. The full text of these documents can be found at <https://www.antwerpmanagementschool.be/en/general-conditions/general-education-and-examination-regulation>. Each student is expected to have read, understood, and to have approved these regulations.

In dit opleidingsonderdeel zijn de gedragscode en het examenreglement van Antwerp Management School van toepassing. De volledige tekst van deze documenten is te vinden op <https://www.antwerpmanagementschool.be/nl/algemene-voorwaarden /onderwijs-en-examenreglement>. Elke student wordt geacht dit reglement te hebben gelezen, begrepen en goedgekeurd.