



الأكاديمية العربية للعلوم والتكنولوجيا والنقل البحري
Arab Academy for Science, Technology & Maritime Transport

A Joint Diploma Just in Time Shipping (JiT)



1st Week in Alexandria, Egypt
2nd Week in Antwerp, Belgium

25 Hours per week

Services included in the rate

Hotel 4* (Including Breakfast) - Coffee breaks during the class sessions - Diploma awarded by **AASTMT** and **APEC** submitted at the last day of the course - City tour - Stationary: pens, book notes, folders, etc.

APEC and PTI will organize off-site visits to the Port of Antwerp and the Port of Alexandria.

Contact us :



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PTI - APEC



Just in Time Shipping (JIT)

Course background and aims:

Ships remain at anchor for many hours or days until getting a berth when arriving at their destination ports. Fuel is still being used all that time which has a serious impact on port air quality. Just in Time (JIT) ship operation could be an effective solution to reduce ship emissions.

Ships could significantly reduce fuel costs and CO₂ emissions if they were informed about berth availability and adjusted their speed accordingly, as until now, terminal operators and service providers share very little information about completion times which means that ships could spend a lot of time waiting at anchor outside of ports.

This is the issue that an IMO-led roundtable meeting of the Global Industry Alliance to support Low Carbon Shipping (GIA) and related industry stakeholders addressed at IMO, as the "Just-in-Time" (JIT) operations have the potential to cut the time ships spend idling outside ports and help reduce harmful emissions as well as saving fuel costs.

'Just in Time' operations focus on prevention instead of correction, while going for high quality performance as well, as they also help to reduce the carbon footprint of marine shipping. In addition to that, they could also have a positive outcome on the wallets of shipping companies.

The Diploma focuses on this current and pressing issue, as it addresses the JIT Shipping while taking into consideration its three main influential aspects: Logistics and Maritime, IT and Environmental aspects.



Course Content

Logistics and Maritime:

- An introduction to the "Just-In-Time" (JIT) operations – an industry practice supported by the (IMO) Global Industry Alliance to support Low Carbon Shipping (GIA).
- Just in time (JIT) implementation strategy.
- Ship design measures and ship size categories effect on (JIT) operations.
- Operational barriers to overcome in order to implement JIT.
- Measures taken by all stakeholders (including ships operators, port authorities, terminal operators, and others) to apply Just-in-Time ship operations.
- JIT and saving fuel costs – an economic point of view.
- JIT operations and improving the safety of navigation.

Information Technology:

- IT role - global standardization and harmonization of data.
- Digitization and sensor technologies - visibility and the optimization of logistics and cross-border operations.

Environment

- Technical energy efficiency and CO₂ emission reduction measures and technologies.
- Low carbon shipping.
- IMO's greenhouse gas reduction strategy for a sustainable future.

Trainers & Methods

Trainee's profile : - Shipping Lines Employees.- Multimodal Operations Staff.
- Environmental Quality Management.
- Port Professionals - IT Specialists and Data Analysts

The Lecturers : Senior lecturers in the following related fields: Logistics, ship operations, IT, and Environmental Technologies, having both Academic and Industrial experience.

Methods : - Theoretical and practical informations
- Practices based on real experiences of the trainees.

Presentations : - PowerPoint - Written support.