



# FUNDAMENTALS OF **PORT & SHIPPING MANAGEMENT**

28<sup>TH</sup> FEBRUARY & 1<sup>ST</sup> MARCH, 2019



# PDP

PANDIT DEENDAYAL PETROLEUM UNIVERSITY

# SPM

SCHOOL OF  
PETROLEUM  
MANAGEMENT



# PORT & SHIPPING MANAGEMENT

The international shipping industry is responsible for the carriage of around 90% of world trade and thus, shipping is the life blood of the global economy. Without shipping, intercontinental trade, the bulk transport of raw materials, and the import/export of affordable food and manufactured goods would simply not be possible. Seaborne trade continues to expand, bringing benefits for consumers across the world through competitive freight costs. Thanks to the growing efficiency of shipping as a mode of transport and increased economic liberalisation, the prospects for the industry's further growth continue to be strong. There are over 50,000 merchant ships trading internationally, transporting every kind of cargo; and to facilitate the world trade there are equal number of ports worldwide.

To understand the concepts, as well as the importance of functioning of the world trade, it thus becomes imperative to have and understanding the working of ships and ports; and more importantly their interface.

## Combined Learning Outcomes

1. Understand the definition of world trade; its effect on the shipping industry, as well as its interface with the ports;
2. Understand various ship types and the cargoes carried on board;
3. Analyse the impact of legal requirements for the safe operation of ships;
4. Understand importance of IMO and the relationship between national, regional and global legislation; analyse the various legal obligations, as well as the legal implications of the various types of marine insurance;
5. Organisation and Functioning of a port system; and Future challenges to ports.



Course Director  
**Capt. Sarabjit Singh Butalia**

Capt. Sarabjit Singh Butalia is a highly qualified and experienced Maritime expert with about 40 years of experience in the maritime industry in various capacities ranging from Ship Master to Trainer/Training Consultant and Fellow at the Nautical Institute London. He started his career with Merchant Navy and later acquired M.Sc. in Maritime Affairs from World Maritime University, Sweden in 2008 with specialisation in maritime education and training. In addition to that he has also earned qualifications in Loss Prevention from U.K., Management Diploma from Nautical Institute London, Course on OHSAS 18001, ISO 14001 Lead Auditors Course and IMO Voluntary State Auditors Course being prominent amongst them.

After a active sailing career in the Merchant Navy from 1979 to 2004, he worked ashore in various capacities including Training Manager & Auditor with Vships (Asia) Singapore. Since January 2009 to date he is also a Training Consultant with DNV GL Maritime Academy India and Singapore. He has lectured on wide range of subjects related to International Law, IMO conventions, Maritime Law, Insurance and cargo claims and developed various course modules with Vships & DNV-GL Singapore. Other noteworthy assignments include Brunei Shell Inc., IIFT, New Delhi and SPM-PDPU, Gandhinagar. From 2006-2010 part of working group for the revision of Standard of Training and Certification of watchkeepers (STCW convention) at International Maritime Organisation (IMO-UN specialised agency).

Captain Butalia is currently serving as Director special projects for Asian Maritime Technological college at Chonburi, Thailand.



Course Coordinator  
**Dr. Pramod Paliwal**

*Dean, School of Petroleum Management,  
Pandit Deendayal Petroleum University,  
Gandhinagar, Gujarat-India.*

# PROGRAMME SCHEDULE

## DAY 1

### A. Introduction to the Shipping Industry, Ship Types and their Operation

- Shipping industry - a global industry;
- World trade, ship types and trades;
- Core structure of the shipping industry;
- Wet cargoes - tankers and other liquid carriers; and
- Dry cargoes - bulk carriers, ore carriers, combination carriers and container ships.

### B. Maritime Legislation

- “Seaworthiness” and how it relates to maritime law;
- The IMO; global - national legislation;
- Conventions and Codes;
- Charterparties;
- Bills of Lading; Waybills; Contracts of Affreightment; and
- Insurance - H&M; P&I.

### C. The Four Pillars of Quality Shipping

- SOLAS (IMO);
- MARPOL (IMO);
- STCW (IMO);
- MLC (ILO); and
- The integration of the conventions into working practices.

### D. The ISM Code - ISPS Code - PSC

- The ISM Code;
- The ISPS Code;
- Port State Control - bringing all three together;
- The effect on ship operations; and
- Risk assessment and risk management.

## DAY 2

### A. International Trade, Transport & Impacts of Modern Logistics on Port Operations and Management

- Relationship between ports and shippers; and
- Relationship between ports and shipping companies.

### B. The Organisation of a Port System & Organisation of Shipping Services

- The role of a port;
- Port organisation at the national and local level;
- Types of ships and related port operations;
- Operating and service characteristics;
- Multimodal and logistics integration; and
- The role of information technology.

### C. The Functioning of a Port System

- Services rendered to the ship;
- Services rendered to the goods;
- Administrative and legal management;
- Technical management and human resources development;
- Road freight;
- Rail freight;
- Terminals and interchange points; and
- Warehousing.

### D. Future Challenges of a Port

- The new competitive advantage of the port;
- Integrative framework for both Sea and land interface port efficiency;
- Health and safety in ports;
- The protection of the environment; and
- Quality management.

Commercial seaports are the predominant category of water terminals, and are sometimes combined with other purpose-built terminals (e.g. military ports, leisure ports, etc.). Their primary role is the provision of services to both ships and their cargo, but the main feature of ports is that they act as an interface between land and sea, and a gateway between international and domestic trade. They also act as an intersecting location for the various interests and different players of the international (and sometimes domestic) logistics and trading system. Such features provide ports with a proven advantage and considerable scope not only to develop first-class unimodal and intermodal facilities, but also to diversify and expand their business activities across multi-functional attributes of the transport, logistics, and trading system.





Programme Fee: INR 22000 per participant plus GST @ 18% (Non-residential)  
Residential arrangements can be made as per request at  
PDPU Campus/ attached campuses at applicable rates.

Kindly courier the participant details with Cheque/D.D. drawn in favour of  
Pandit Deendayal Petroleum University, Gandhinagar with envelope marked as  
'Maritime MDP' at the following address:

**THE PROGRAMME OFFICE**  
**SCHOOL OF PETROLEUM MANAGEMENT**

Pandit Deendayal Petroleum University, Off. Koba-Gandhinagar Highway,  
Raisan, Gandhinagar, Gujarat - 382 007.

---

Phone: +91 79 2327 5109

For any other details please E-mail us at [programmeoffice@spm.pdupu.ac.in](mailto:programmeoffice@spm.pdupu.ac.in)



**PDPUPU**  
PANDIT DEENDAYAL PETROLEUM UNIVERSITY

