

DNV船級協會簡介



船廠經營管理

黃嘉燦, DNV挪威船級協會 主任驗船師

<2008-11-26 國立高雄海洋科技大學造船工程學系 >

課程目的

船廠經營管理的課程目標

- 經由造船現況瞭解，引發學生對造船產業興趣，強化進入造船界意願。

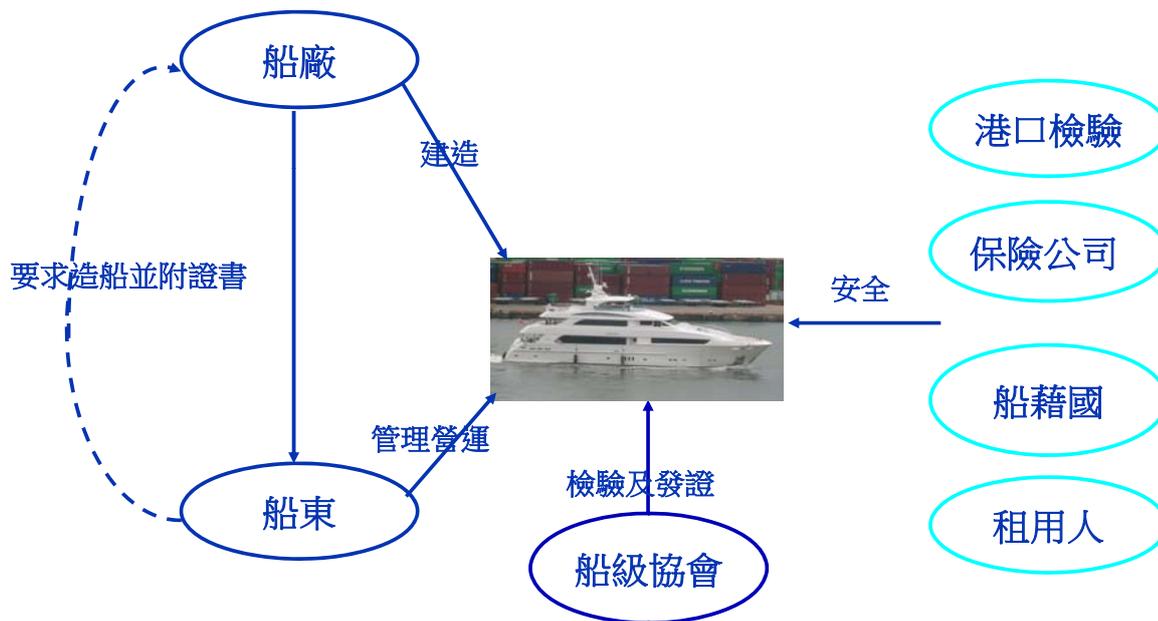
本週課程目的

- 使參加學生了解船級協會之由來，船級協會在航運界所扮演的角色以及船級到底做些什麼？

- 船舶的分類 ▶
- 船級是什麼? ▶
- DNV簡介 ▶ ▶
- 驗船師的生活 ▶
- 問題及解答 ▶

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船級協會的歷史

- 1668 Edward Lloyds coffee shop
- 1669 Lloyds News
- 1734 Lloyds List
- 1760 Lloyds Register of Shipping (LR)
- 1828 Bureau Veritas (BV)
- 1862 American Bureau of Shipping (ABS)
- 1864 Det Norske Veritas (DNV)

- **Old classification:**

每年檢驗船舶之船體及機器並把它分成不同的等級

- **Hull: A, E, I, O, U**

- **Equipment: G, M, B -> 1, 2, 3**

- **Highest class ship: A1, lowest ship: U3**

- **Standard: Technical rules**

- **Reference: [IACS What are classification societies?](#)**

New Classification Concept

- **發展船舶獨立的技術標準 (船級法規)**

The development of independent technical standards for vessels. (Classification Rules)

- **在船的一生中, 確認此船皆符合此標準**

The verification of compliance with these standards throughout the ships' life.

這就是現代的船級協會(Classification Society)

執行所發行之法規

- 針對新船之設計圖及文件做技術審核是否合法規之要求
- 驗船師到船廠針對建造之船舶及到相關之主要的機材工廠如鋼板, 主機, 發電機, 鑄造廠之機材檢驗以證明此艘船之建造符合船級法規之規定
- 如以上之工作皆獲得滿意之結果, 船級協會之委員會將會認可並簽發船級證書給此艘船舶
- 船舶開始航行後, 船東須要求船級協會做定期之檢驗符合法規之規定以維持此船舶船級之有效
- 哪如何分等級呢?

船級符號 (Class Notations)

■ 主要船級符號(Main Class Notations)

- **Construction Symbol** e.g. ✠
- **Main Character of Class** e.g. 1A1 or HSLC 1A1
- **Service Area Notation** e.g. R0 or R4

■ 附加船級符號 Additional Class notations

- **Service and type notation**

e.g. Yacht

- **Equipment & Systems notation** e.g. E0

航行區域限制符號

<i>Condition</i>	<i>Notation</i>	Winter	<i>Summer</i>	Tropical
Ocean	None	1)	1)	1)
Ocean	R0	300	1)	1)
Ocean	R1	100	300	300
Offshore	R2	50	100	250
Coastal	R3	20	50	100
Inshore	R4	5	10	20
Inland	R5	1	2	5
Sheltered	R6	0.2	0.3	0.5

- 1) Unrestricted service notation is not applicable to craft falling within the scope of the HSC Code, i.e. service and type notations **Passenger**, **Car Ferry** or **Cargo**.

- Bulk Carrier
- Tanker for Oil
- General Cargo Carrier
- Container Carrier
- Tanker for Chemical
- Passenger
- Patrol
- Yacht

- **BIS: Built ion Water Survey**
- **DG-P: carry Dangerous Good in Packed form**
- **E0: Unattended machinery space**
- **HELDK: Helicopter deck**
- **HMON: Hull monitoring System**
- **NAUT: Nautical Safety**
- **TMON: Tailshaft Monitoring System**
- **DK(+): Decks for heavy cargo**
- **IB(+): Inner bottom strengthened for grab loading**

M/V BLACK MARLIN

✳️1A1 General Cargo Carrier E0 DK(+) PWDK



M/Y KAMAXITHA

✳️1A1 LC R2 Yacht



F/V YANTAR

✂1A1 Fishing Vessel ICE-C



M/V WAN HAI 601

✂1A1 Container Carrier E0 DG-P COAT-1 TMONNauticus(Newbuilding)





Det Norske Veritas
挪威的真誠

An independent autonomous foundation
established in 1864, the purpose is to safeguard
life, prosperity and environment.