

ISM Code & Auditing Techniques EMSA Training – Module 3 & 4

SAFER, SMARTER, GREENER

Navigator

- Module 1 Evolution of Management Systems and the ISM Code
- Module 2 ISM Code Requirements (incl. latest developments)

Module 3 – Stakeholders in Shipboard Operations

- Module 4 Knowledge of Shipboard Operations
- Module 5 The ISM Code and the EC Regulations & IMO
- Module 6 Types and Scopes of Flag State Audits and Issuance of Certificates
- Module 7 The Auditor
- Module 8 Audit Planning and Organization
- Module 9 Audit Conduction
- Module 10 Audit Reporting & Follow-up
- Module 11 Role Play

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Flag States - Tasks

- Development of national law on shipping
- Implementation of international Conventions into its own national law
- Ensure compliance of ships flying its flag with its own national law
 - > often delegated to Recognized Organisations
 (RO) = Classification Societies







Module 3 / Activity 1

Flag State Tasks

https://forms.office.com/Pages/ResponsePage.aspx?id=DQSIkWdsW0yx EjajBLZtrQAAAAAAAAAAAAAAAAAIJy5IUMzhWS1oxNIFHVk5RODJFVEQyT0c 1SkoxUi4u



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European Marking Safety Aper

Port State Administrations - Tasks

- Port State controls (PSCs) of foreign ships within its ports for compliance with international standards
- Alliance in regional associations
 - e.g. Paris MOU for Europe, Tokyo MOU for Pacific Area
- PSC legalized by all important IMO conventions







DNV-GL Tools: Top Ten PSC Findings & Maintenance Checklists

7 Hull and Machinery Condition:



No.	Item	Yes	No	Action taken
7.1	As far as visible, are the ship's aide shell plates without damage and excessive wastage?			
7.2	Is the structure of cargo holds with regard to bulkheads, frames, brackets, tank tops etc. without damages and excessive wastage?			
7.3	Are electric cable arrangements properly installed and insulated, no loose wiring?			
	Are light covers properly fixed on all lamps?			
	Does the main switchboard have insulation mats around it?			
7.4	Is the engine room with regard to work and fire safety in a generally clean condition?			
7.5	Is the main propulsion system in proper working condition?			
7.6	Is the auxiliary engine and power system including 100% power redundancy in proper working condition?			
7.7	Is the emergency generator arrangement for immediate supply of electrical power in proper working condition?			
7.8	Is the jacketed piping system on high pressure fuel lines properly installed and alarms working?			
7.9	Are engines and piping systems free of leakages ?			
7.10	Are the anchoring devices in good condition without damages?			
7.11	Are the mooring ropes in good working condition?	П		



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Classification Societies

What are the tasks of a classification society?







- Development of *class rules*, i.e. standards for ships' design, construction and operational maintenance
- Research programs in ship technology
- Survey and *Classification* of ships
- Publication of a register book
- Statutory surveys and certification as delegated by Administrations



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Dual Tasks: Class - Statutory





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Delegation of Authority

- Authorization of Recognized Organizations (RO)
 - Minimum standards (Res.MSC.349(92), dictating: resolution A.739(18) entitled Guidelines for the authorization of organizations acting on behalf of the Administration, as amended by resolution MSC.208(81), and resolution A.789(19) entitled Specifications on the survey and certification functions of ROs
 - Formal written agreement
 - Instructions if a ship has been found unfit to proceed
 - Provision of RO with national law and interpretations
 - RO to assist in the interpretation of regulations
 - Surveys, audits and issue of certificates
 - Program for monitoring and communication





DNV GL Tool: Authorization List

Flags that are not direct members of IMO are listed separately at the bottom of the list	SOLAS Convention 74	SOLAS Protocol 78	Assembly Res. A.883(21)	SOLAS Protocol 88	Stockholm Agreement 96	LOAD LINES Convention 66	Assembly Res. A.883(21)	LOAD LINES Protocol 88	TONNAGE Convention 69	SFV Protocol 93	Cape Town Agreement 2012	STCW Convention 78	STCW-F Convention 95	MARPOL 73/78 (Annex I/II)	MARPOL 73/78 (Annex III)	MARPOL 73/78 (Annex IV)	MARPOL 73/78 (Annex V)	MARPOL Protocol 97 (Annex VI)	ANTI FOULING 01	BALLASTWATER 2004	HONG KONG CONVENTION	MLC	ILO 92	1LO 133	ILO 152
Afghanistan]																								
Albania	x	x				х			х			X		x	х	х	х			х		х			
Algeria	х	х		х		х		x	х			х		х	х	x	х						х		
Andorra																									
Angola	X	х				х			X			х		x	х	x	х								
Antigua & Barbuda	х	х		х		х		x	х			х		x	X	x	х	X	x	х		х			
Argentina	х	х		х		х		х	х			х		х	х	x	х					x			
Armenia																									
Australia	x	х		х		х		х	х			х		x	х	X	х	х	х			x	x	х	
Austria	x	x				х			х			х		x	х	X	x								
Azerbaijan	x			х		х		х	х			х		х	х	x	х	х							
Bahamas	x	х		х		x		х	X			X		x	х		x	X	x			x			
Bahrain	x			x		х		x	х			х		х			х								
Bangladesh	x	x		х		х		х	х			x		х	х	х	x	х				х			
Barbados	x	х		х		х		х	х			х		x	х	x	х	х	х	х		x			
Belarus	x					х								x	X	х	х								
Belgium	x	х		х		х		х	х			х		x	х	х	х	X	х	х	х	x	х	X	
Belize	x	X		x		х		X	х			X		x	X	x	х	x				x	X	X	
Benin	х	х				х			х			х		х	х	x	х	х				х			
Bhutan																									

IACS - Tasks

- Standards among Classification Societies
- Publications (www.iacs.org.uk)
 - unified requirements
 - interpretations
 - recommendations
 - common structural rules
- Representation at IMO

INTERNATIONAL ASSOCIATION OF CLASSIFICATION SOCIETIES LTD.







IACS Recommendation 74 – A Guide to Managing Maintenance

- The "Guide to Managing Maintenance" laid down in the IACS Rec. 74 (Rev.2 Aug 2018)
- Most failures in shipboard safety management systems leading to a PSC detention refer to maintenance



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Industrial Organizations

• ISO	International Standard Organization
• ICS	International Chamber of Shipping
• BIMCO	The Baltic and International Maritime Council
• OCIMF	Oil Companies International Marine Forum
 INTERTANKO 	Int. Association of Independent Tanker Owners
• INTERCARGO	Int. Association of Dry Cargo Ship-owners

> Creating Industry Standards



Closing – Module 3

Do you have any further questions?



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Conflicting goals in shipping

Officers and crew see several different goals and objectives, and some of these goals might at times be in conflict with one another...

Revenue Goals

SMS Goals

Budget Goals

Time Goals







"If we stop for maintenance, we will be delayed and lose a good deal"

"To be in compliance with the rest hour regulation"

"The budget on spare parts is spent, and it's only September" "We are told to be in Rotterdam in 12 hours. Full speed ahead"

Could there possibly be conflicting goals on safety in some circumstances that might result in safety not being the top priority?

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The Master

Commercial function

- Represents Owners / Charterers
- Protects Owners / Charterers interests against third parties
- Is fully responsible for all shipboard operations (Cargo / Passenger related)
- SMS responsibility acc. to ISM Elem. 5





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Seaworthiness and Cargo-Worthiness



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The Ship-owner

Commercial function

- Owns merchant (commercial) ships
- Operates these for delivery of cargo
- At a certain freight rate
- Liner Tramp services
- Is organized through Company
- Bareboat charter / Sub-charter / Beneficial owner
- Contracts ship management companies for nautical and technical management



Ship Management Company (1)

Commercial function

Technical Management

- Co-ordination of all technical aspects related to ship operations by Company's technical inspectors (superintendents – mostly ex ship engineers)
- Regular inspections on board / continuous technical support
- Technical procurement
- Organization of planned maintenance
- Providing technical support for repair works, incl. docking for major repairs
- Organize shipyard guarantee works / periodical dry dockings
- Budget control for all technical expenditures
- Hiring in external services (if applicable)





Ship Management Company (2)

Commercial function

Nautical Management

- Co-ordination of all nautical , safety and pollution prevention aspects related to ship operations by Company's nautical inspectors
- Development and supervision of ship management systems
- Occupational health and safety
- Regular inspections on board / continuous support of ship's command
- Supervision of planned safety maintenance and shipboard training
- Ship's administration (Registration, flag- and port State affairs)
- Ship's documentation (Ship's papers, sea charts, etc.)
- ISPS matters

Crew Management

• Supervision crew's certification and qualification according to STCW, MLC and flag State requirements

Despite the above stated managements, the only management with a regulatory status is the Company in the ISM Code, i.e.: the Company appearing in the DOC / SMC, who is responsible for ensuring that all these activities are carried out in accordance with the requirements in the ISM Code – and the ISM Company is **responsible for** both technical management, crew management and nautical management – even if the tasks are delegated to other entities.



The Charterer

Commercial function

- Owns cargo, or
- Operates passenger transport services, or
- Acts as Tour operator
- May employ shipbroker
- May also be a party without a cargo





Charter Types and Contracts





The Ship Broker

Commercial function

- Specialist intermediaries between ship-owners and the charterers
- Specialized for dry cargo chartering / tanker chartering / container / sales & purchase broker (S&P) / salvage chartering / new building
- Continuously monitoring the shipping market (spot market, charter market. etc.)
- Acting as negotiator charterer/ owner regarding terms & conditions & payment, co-ordinating communication
- Paid on a commission basis



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The Crew Manager / Crewing Agent

Commercial function







The Agent

Commercial function

- Charterer's / Owner's local representative
- Intermediate between charterer / owner/ ship and third parties
- Main tasks:
 - Immigration, customs, etc.
 - Navigational aids pilot, tug
 - **Financial arrangements**
 - Port services
 - Contact person for berth arrangements, terminal operations & schedule
 - Miscellaneous (crew change, order taxi, purchase, etc.)



Types of agents:

- Ship's clearing agent – husbandry
- Forwarding / **Customs clearing** agents
- **Cargo agents**

The Underwriter / Insurance

Commercial function

- Marine Insurance cover loss or
- Specialized underwriters: Hull & Machinery (H&M), cargo, Loss of hire (LoH)
- Protection & Indemnity clubs (P&I) cover all risks not covered by insurance
- Determine the extent of damage to cargo, ship and other liabilities
- Specialized in claims assessment
- Give an estimate of damage in writing as a legal document for insurers



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Closing – Module 4

Do you have any further questions?



