

The Dry Bulk Management Standard

Contents

Contents

Con	tents	1
Р	urpose and scope	3
Sec	tion one	4
Т	he Dry Bulk Management Standard	4
	Introduction	4
	Expectations	5
	Self-assessment process	6
	Scoring methodology	7
	Continual improvement	7
	Priority subject areas	9
	Submitting Reports	10
Α	bbreviations	10
G	lossary	12
Sect	tion 2	14
Р	erformance	14
	Commitment to HSSE	14
	Vessel visits & communications	14
	SMS governing documents	14
	HSSE objectives & KPIs	14
	Audit planning, review & close out	15
	Master's review and company evaluation	15
Ρ	eople	15
	HR management & recruitment (office)	15



	Technical & HSSE training (office)	15
	Crew management & recruitment	15
	Crew technical & HSSE training	15
	Crew familiarisation	15
	Contractor management	16
	Crew welfare	16
Ρl	ant	16
	Maintenance	16
	Dry dock & surveys	16
	Critical equipment	16
	Engine room operations & bunkering	16
	Inspection planning review & close out	16
Pı	ocess	16
	Mooring & anchoring	17
	Cargo & ballast	17
	Bridge procedures & standards	17
	Risk assessment & management	17
	Permit to work	17
	Safety culture improvement	17
	Environmental management	17
	Management of change including vessel acquisition	18
	Security management	18
	Cyber security	18
	Emergency planning including crisis management	18
	Incident reporting investigation & training	1 2



Purpose and scope

The Dry Bulk Management Standard (DryBMS) helps assure ship managers of bulk carriers that they are meeting the right standards to achieve a good level of management. It can be used to identify areas for change to make sure resources are used to support high-quality ship management.

The tool consists of a draft self-assessment questionnaire for review by the industry to gather feedback and opportunities for improvement. The vision is to launch a revised standard early in 2021, and a to incorporate a dashboard.

The questionnaire covers 30 subject areas of ship management, within four sections – Performance, People, Plant and Process.

The dashboard will show how a company's self-assessment compares to other companies on a range of statistics that have been identified as indicators of good management.



Section one

The Dry Bulk Management Standard

Introduction

The Dry Bulk Management Standard is a set of resources for ship managers to use to self-assess and improve (or maintain) their performance. It contains guidance on how to conduct self-assessments and specific subject areas in which each focus on an area of ship management.

All the materials are available on our website https://drybulkmanagementstandard.org The documents guide you through a process to capture current activity and practice, assess how well your company is performing against a set of standards, and improve practices, procedures and administrative arrangements.

The subject area self-assessment criteria set out what good practice looks like and how to evaluate performance by assessing each expectation of your company's practice against these good practice criteria

Finally, as an organisation, you decide what actions you want to take to either maintain good current practice or improve practice.



Expectations

Within each subject area, the Dry Bulk Management Standard provides expectations and associated targets at four levels: - Basic, Intermediate, Advanced and Excellence. Each level describes the comprehensiveness of a company's management system in relation to the subject area. A general description of the levels of compliance is shown in the table below: -

Basic	Mandatory compliance with IMO and flag state requirements. The		
	company sets clear HSSE requirements and makes reference to		
	industry guidelines and non-mandatory recommendations but does		
	not adopt them as mandatory and does not set clear parameters.		
Intermediate	The company meets all the expectations of the basic level. The		
	company incorporates continuous improvement process and has set		
	clear parameters in the SMS for non-mandatory recommendations		
	and industry guidance and in order to manage HSSE risks.		
Advanced	The company meets all the expectations of the intermediate level.		
	The company demonstrates a continuous improvement process, has		
	adopted upcoming legislation and industry lessons learnt into its		
	SMS and adopts specialised tools to manage key indicators and		
	emerging risks associated with HSSE.		
Excellence	The company meets all the expectations of the advanced level. The		
	company demonstrates a pro-active continuous improvement		
	process, to collect and analyse leading indicators and emerging		
	risks. It is able to demonstrate a systematic process for follow up		
	and conclusion of definite actions for managing all HSSE risks.		

The expectations and associated targets can be used by a company to self-assess their systems and processes.



Self-assessment process

It is important that the process is led and managed by a senior figure in the organisation, but self-assessment works best when it is an integral part of your company's activity, not something that is done by just a few people on behalf of all the rest. Everyone should have the opportunity to assess and evaluate their role against subject area expectations and targets, and against those parts of the Dry Bulk Management Standard which apply to them.

The staff involved in self-assessing each subject area should identify and gather sources and kinds of evidence in relation to the expectation and target for each stage in the subject area. Suggested evidence is included in the subject area document, however, this is only guidance, as each company may comply with the expectation and target in a different way. Once you have identified the possible evidence under each expectation and target, you can begin the process of working out what the evidence is telling you - What are your strengths? What are your weaknesses? How do you know?

Evidence of your company's performance may be made by matching the evidence of your company's performance against other indicators. Here are some examples. You may wish to add others.

Your last self-assessment report
External audits of the company
Internal audits
Feedback from customers/stakeholders
Performance against your own targets
Findings from inspections
Performance trends
Benchmarking information

Once you have collected your evidence and made judgements on the effectiveness of your management, you should record your findings. You are now able to score your self-assessment.



Scoring methodology

Within each subject area, and based on your self-assessment, you should score each level based on the following criteria:

This level is not met	0%
This level has substantial opportunities for improvement	25%
This level is partially met	50%
This level is substantially met	75%
This level is fully met	100%

The percentages for each stage are totalled and divided by 100 to give a score out of four.

Within the dashboard, there are plans for certain rules, for scoring levels above basic and intermediate: -

Unless the score for the basic level is 100%, scores for the intermediate, advanced and excellence levels will be scored at 5% of the self-assessed score.

Unless the scores for both the basic and intermediate levels are 100%, scores for the advanced and excellence levels will be scored at 5% of the self assessed score.

Continual improvement

The PDCA cycle is a way of implementing continual improvement to your company's activities. Each step to improvement can be defined by four sub steps, Plan, Do, Check and Act:

- 1. **Plan**: Establish a timetable for internal audits and management reviews. Establish the objectives and processes necessary to deliver results in accordance with your company's requirements and policies.
- 2. **Do**: Implement changes designed to solve the problems on a small scale first to see the effect. This minimizes disruption to routine activity while testing whether the changes will work or not.
- 3. **Check**: Monitor and measure processes and product against policies, objectives and requirements and report the results. Also check on key activities to ensure that the quality of the output is conforming and not influenced by the changes.



4. **Act**: Take actions to continually improve process performance. Implement the changes on a larger scale, if the experimental changes have proven to be successful. This means making the changes a routine part of the activity.



Priority subject areas

Within the Dry Bulk Management Standard, seventeen priority areas have been identified as subject areas which have a potentially higher impact for injury to people, damage to the environment and achieving effective performance in the organisation.

Although, these priority subject areas make no difference to the overall score of a company, a company may wish to focus on improvements to these subject areas, ahead of improvements to other subject areas.

Performance	People	Plant	Process
1. Commitment to HSSE	7. HR management and recruitment (office)	14. Maintenance	19. Mooring & anchoring
6. Master's reviews& companyevaluation	9. Crew management & recruitment	16. Critical equipment	20. Cargo & ballast
	10. Crew technical & HSSE training (vessels) 12. Contractor management	17. Engine room operations & bunkering	21. Bridge procedures & standards 22. Risk assessment & management 23. Permit to work 26. Management of change including vessel acquisition 29. Emergency planning including crisis management 30. Incident reporting, investigation & training



Submitting Reports

It is voluntary for ship managers to complete and submit the self-assessment questionnaire.

You will need to submit your self-assessment questionnaire using our online form. We will update this guidance when the form is available.

It is suggested that the questionnaire is included in the company management review, reviewed and updated annually. Companies may find it useful to complete the questionnaire at other times, for example after a major change to the organisation or the safety management system (SMS).

Abbreviations

AIS	Automatic Identification	CO2	Carbon dioxides
	System	CSO	Company Security Officer
ARPA	Automatic Radar Plotting	CSR	Corporate Social
	Aid		Responsibility
BLU	The Code of Practice for	D&A	Drugs and Alcohol
	the Safe Loading and	DMSDocume	nt Management System
	Unloading of Bulk Carriers	DryBMS	Dry Bulk Management
BNWAS	Bridge Navigation Watch		Standard
	Alarm System	DPA	Designated Person Ashore
BRM	Bridge Resource	ECDIS	Electronic Chart Display
	Management		and Information System
BWM	Ballast Water	ENC	Electronic Navigation
	Management		Chart
CatZoc	Category Zone of	ERP	Emergency Response Plan
	Confidence	FMEA	Failure Mode and Effects
CBM	Condition-based		Analysis
	Maintenance	GMDSS	Global Maritime Distress
CBT	Computer Based Training		and Safety System
CCTV	Closed Circuit Television	H&M	Hull and Machinery
CEO	Chief Executive	HAZID	Hazard Identification



RA

Risk Assessments

HR	Human Resources	SME	Subject Matter Expert
HSSE	Health, Safety, Security	SMS	Safety Management
	and Environment		System
IBWM	International Ballast Water	SOLAS	International Convention
	Management		for the Safety of Life at
IMSBC	International Maritime		Sea
	Solid Bulk Cargoes	Sox	Sulphur Oxides
ISM	International Management	SSO	Shipboard Security Officer
	Code for the Safe	STCW	International Convention
	Operation of Ships and for		on Standards of Training,
	Pollution Prevention		Certification and
ISO	International Organisation		Watchkeeping for
	for Standardisation		Seafarers
ISPS	International Ship and Port	SWA	Stop Work Authority
	Facility Security code	T&P	Temporary or Preliminary
IT	Information Technology	TBT	Tool Box Talk
KPI	Key Performance Indicator	TSS	Traffic Separation Scheme
LOTO	Lock out – Tag out	UKC	Under Keel Clearance
MARPOL	International Convention	UMS	Unmanned Machinery
	for the Prevention of		Space
	Pollution from Ships	USB	Universal Serial Bus
MLC	Maritime Labour	VDR	Voyage Data Recorder
	Convention	ZOC	Zone of confidence
MOC	Management of Change		
NOx	Nitrogen Oxides		
OT	Operational Technology		
P&I	Protection and Indemnity		
PMS	Planned Maintenance		
	System		
PPEPersonal Protective Equipment			
PTW	Permit to Work		



Glossary

Appraisal A formal assessment, typically in an interview, of the

performance of an employee over a period.

Assurance programme A system of inspections, audits and assessments to ensure

the system is working to the required standard.

Benchmarking A comparison of the company's processes and performance

metrics to other companies. It is also used to compare

performance within a fleet of vessels.

Behavioural change A modification of people's habits and attitudes to safety.

Causal factors A mistake, error, or failure that directly leads to

an incident or fails to mitigate the consequences of the

original error.

Company The owner or any other organization, such as the manager or

bareboat charterer, who has assumed responsibility for

operating the ship. Normally, the holder of the Document of

Compliance.

Contractor A third-party company paid to provide goods, services or

activities aboard a vessel.

Document controller The person(s) responsible for the timely, accurate and

efficient preparation and management of documents

associated with the SMS.

Energy efficiency The process to reduce the amount of energy required to

carry out the operations of a vessel.

Executive team A team of individuals at the highest level of management of

the company who have the day-to-day tasks of managing

that company.

Feedback Information or statements of opinion about something, such

as a process, that can tell you if it is successful.

High Potential An unplanned HSSE incident or near-miss that has the

potential severity to cause permanent disability or death



Human factors The application of psychological and physiological principles

to the engineering and design of products, processes, and

systems.

Job description A document that contains details of duties and

responsibilities of a role, as well as, essential qualifications,

key competencies and relevant experience.

Management level The level of responsibility associated with ensuring that all

functions within the designated area of responsibility are properly performed; normally serving as master, chief mate,

chief engineer officer or second engineer officer

Management review An evaluation of a company's performance and SMS.

Near miss An incident where no property was damaged and no personal

injury was sustained, but where given a slight shift in time or

position damage and/or injury easily could have occurred.

Operational level The level of responsibility associated with maintaining direct

control over the performance of all functions within the

designated area of responsibility in accordance with proper

procedures and under the direction of an individual serving

in the management level for that area of responsibility;

normally serving as officer in charge of a navigational or

engineering watch or as designated duty engineer for

periodically unmanned machinery spaces.

Retention rate The percentage of staff that have been employed by the

company throughout the period under review.

Root cause The absence of a best practice, or the failure to apply

knowledge that would have prevented the incident.

Safety culture The product of individual and group values, attitudes,

perceptions, competencies, and patterns of behaviour that

determine the commitment to, and the style and proficiency

of, a company's HSSE management.

Safety Officer The person onboard who acts as the vessel's safety adviser.

The safety officer shall be appropriately trained for this role.



Senior manager A member of the company's shore-based leadership team.

Subject matter expert Someone with a deep understanding of, and wealth of

experience in, a role, process or technology.

Support level The level of responsibility associated with performing

assigned tasks, duties and responsibilities under direction.

Tool-box talk An informal safety meeting, generally carried out at the site

of work prior to the commencement of a job.

Vertical clearance The distance above the top of a vessel and an overhead

obstruction, such as a bridge. Also the distance above the top

of a hatch cover and a gantry.

Section 2

Performance

The company promotes a strong, proactive HSSE culture throughout the organisation. HSSE objectives are set and communicated to the workforce. Measurement is used to understand, sustain and improve performance.

Commitment to HSSE

The company promotes a strong, proactive HSSE culture in senior management and at all levels throughout the company.

Vessel visits & communications

The company ensures managers, through their actions and behaviours, create an environment in which the workforce are informed, involved and enabled to carry out their roles.

SMS governing documents

The company documents, maintains and follows policies, practices and procedures for the safety of their employees and the safe, compliant and reliable operation of their ships.

HSSE objectives & KPIs

The company provides a system to report leading and lagging indicators that provide a clear understanding of HSSE performance.



Audit planning, review & close out

The company performs audits of operating and management processes to assure compliance with legal and company requirements, and drive risk reduction and performance improvement. Findings from audits are followed up for close out.

Master's review and company evaluation

The company periodically reviews the adequacy and appropriateness of the SMS and drive systematic improvement in efficiency.

People

The company's organisation is fit for purpose staffed with competent people and teams.

HR management & recruitment (office)

The company establishes an organisation that allows it to deliver its objectives effectively through the deployment of competent people and adequate resources ashore.

Technical & HSSE training (office)

The company maintains competent shore staff with appropriate qualifications, skills and knowledge for roles that support the fleet, and to meet current and future business needs.

Crew management & recruitment

The company deploys competent people and adequate resources aboard vessels in its fleet.

Crew technical & HSSE training

The company maintains competent vessel staff with appropriate qualifications, skills and knowledge for roles onboard, and to meet current and future needs.

Crew familiarisation

The company has a programme to ensure crew members are familiar with the arrangements of the ship, as well as the location and operation of any on-board procedures, systems or equipment that they may be called upon to use.



Contractor management

The company develops and implements a process for the management of contractors and sub-contractors with emphasis on the master's and other officers' and crew members' related health and safety responsibilities.

Crew welfare

The company has a programme to ensure the wellbeing of vessel personnel.

Plant

The ships and equipment onboard are fit for purpose throughout the lifecycle of operation.

Maintenance

The company has a programme to inspect and maintain plant and assets to prevent injury to people, damage to the environment and achieve effective performance.

Dry dock & surveys

The company has a programme to manage dry docks, repair periods and maintaining class status.

Critical equipment

The company maintains an inspection programme to determine the condition of critical equipment & systems to verify and document they are fit for service.

Engine room operations & bunkering

The company operates engine room and plant facilities effectively to prevent injury to people and damage to the environment.

Inspection planning review & close out

The company ensures that shore-based personnel carry out inspections to monitor the condition of the vessel and it's equipment

Process

The company documents and rigorously follows procedures for safe compliant operations.



Mooring & anchoring

The company develops and implements planning and operational processes for mooring, anchoring and access, to ensure these are carried out effectively without injury to people and damage to the environment.

Cargo & ballast

The company develops and implements planning and operational processes for cargo and ballast, to ensure these are carried out effectively without injury to people and damage to the environment.

Bridge procedures & standards

The company develops and implements planning and operational processes for navigation, including bridge team management, to ensure this is carried out effectively without injury to people and damage to the environment.

Risk assessment & management

The company has a programme to assess, prioritise and manage operating risks to prevent harm to people, damage to the environment and to achieve operational effectiveness.

Permit to work

The company has a formal control of work process to provide a work environment that will allow tasks to be completed safely with adequate control measures in place.

Safety culture improvement

The company has a programme to develop and maintain a culture to enable safe, compliant and efficient operations.

Environmental management

The company manages the impact of its operations on the environment and integrates environmental requirements into the safety management system.



Management of change including vessel acquisition

The company has a formal process to document, evaluate, approve and communicate temporary and permanent changes that could impact safe, compliant and efficient operations.

Security management

The company has processes in place to maintain the security of the workforce, vessels and premises.

Cyber security

The company has a programme to design and operate IT and digital process control systems to manage risk to system and information integrity, availability and confidentiality.

Emergency planning including crisis management

The company prepares for and responds promptly to emergency events threatening harm to its staff, vessels and other incidents.

Incident reporting, investigation & training

The company has a programme to report and investigate incidents; determine immediate and root causes and implement appropriate corrective actions.