1. Bridge Team Management (BTM)

Duration: Five days

Conducted at: Mumbai

Objective:

Large number of navigational accidents are attributed to human error. Lack of knowledge, poor communication, low situational awareness and an ineffective bridge team are said to be major contributing factors causing such accidents. The candidates at the end of the course would gain sufficient knowledge and experience to understand behavioral aspects of a successful bridge team in various situations along with technical information required for keeping an effective and safe navigational watch.
This course is an intense course on the theory of navigational practices including collision avoidance.

Subject Areas:

- Analysis of the trend of navigational accidents and the reasons thereof
- Understanding the effective use of human and technical resource to break the error chain leading to navigation accidents
- Management style and attitude of bridge team member plays an important role in successful completion of voyage
- To analyze the importance and interpretations of regulations governing navigation, STCW and SOLAS
- The theory and practice of passage planning and study of correct procedures for maintenance & corrections of chart and publications
- To study the finer concepts of collision avoidance regulations and their proper application on board, especially in restricted visibility.
- Case studies, analysis of various navigational accidents and supporting videos.

USP:

1 Concept building
2 Simulator practice on Full Mission Bridge Simulator
3 Exposure to conventions and amendments (STCW, SOLAS, ROR)
4 Simulator Exercises on different type of ships and in different areas of the world.
5 Animated videos recreating the accident scenarios.

Eligibility:

All deck officers

2. Ice Navigation (ICE NAV)

Duration: Two days

Conducted at: Mumbai

Objective:

The trainees who successfully complete this course will have gained theoretical knowledge and experience in navigating ships under various conditions in the ice infested waters and will develop practical skills in the safe operation and navigation of ships in cold and subzero climates.

In particular, trainees will gain:

A greater awareness of managing risks associated with cold climate and subzero climate.

Familiarization with IMO guidelines for ships operating in Arctic ice covered waters.

An awareness of operation and navigation technique in ice

A greater awareness and understanding of a good interactive communication style and benefit of building up a common shared mental model of the planned passage.

Subject Areas:

Introduction to Ice navigation

Ice physics

Interpretation of ice chart

Vessel preparation for ice/ Navigation in ice

Exercise (using the information sheet, describe the passage and anticipated type & condition of ice)

Entering in ice field (Simulator training)

Classification of ice classed Ship and Ice damage

Construction of vessel for Ice

Ice related terms

Crew protection

Cold weather hazards

Precautions & procedures for Deck & Engine in ice areas

Ship manoeuvring in ice/ Breaking ice (Simulator training)

Following ice convoy (Simulator training)

USP:

Upgraded software available for better hands on training in the ice region.

Candidates are allowed ample time in the Full Mission Bridge simulator, where they can visually distinguish between different types of ice and navigating through them.

Eligibility:

This course is for certified navigating officer of any rank, preferably chief officers and Master. Ratings may be allowed in the course if the number of the officers is less for steering purposes only during bridge simulator exercise.

3. Maritime Resource Management (MRM)

Duration: Four days

Conducted at: Mumbai

Objective:
This is a 4 day course designed upon the "Swedish Club" guidelines. MRM training aims at developing the skills of mariners by introducing advanced leadership techniques and addressing the human factors which cause accidents at sea.

Subject Areas:
Situational, cultural & automation awareness
Attitude & management skill
Communication & Briefings
Challenge and response
Short Term Strategy
Authority & Assertiveness
Management styles
Workload
States of the ship
Human involvement in errors
Judgment and decision making
Leadership in emergencies
Crisis and crowd management

Simulator exercises and case studies based on behavioural aspects are also included.

USP:
The course is approved by Swedish Club
Simulator exercises are carried out in the Full Mission Bridge Simulator

Eligibility:
Certificated Masters, Navigating officers, Engineer Officers and Shore based Maritime personnel

4. Large Vessel Manoeuvring (LVM)

Duration: Two days

Conducted at: Mumbai

Objective:

This course is theoretical and practical oriented course to understand the limitations imposed during handling of large vessels. Classroom lectures are provided for building theoretical background when executing simulator exercises.

These exercises are complex in nature and participants become familiar with the manoeuvring characteristics of the vessels and its response to the engine and helm order and also handling in various emergencies.

Each exercise will be preceded by a session for briefing and be followed by a debriefing.

Subject Areas:

Review of basic principles of ship handling
Familiarization with the bridge
Standard man oeuvres
Effect, limitations & use of engine, thruster and tugs
Anchoring aspects of large vessel
Wind and current effects, Shallow water effects, manoeuvring in heavy weather
Passage planning in Singapore Strait for large vessel
Planning and carrying out vessel's man oeuvre, exercise on simulator.

USP:

Hands on training on the Full Mission Bridge Simulator

Eligibility:

This course is open to all deck officers

5. Ship To Ship Transfer (STS)

Duration: One day

Conducted at: Mumbai

Objective:

The course objective is to provide ship handling knowledge to bridge team when involved in Ship-to-ship transfer operation. The course objective is to provide bridge team member knowledge regarding techniques and precautions under various meteorological and hydrodynamic conditions involved in mooring and unmooring two ships together for safe ship-to-ship transfer operation and deal with various emergencies involved.

The checklist and guidance advised as per the ICS – STS PUBLICATION is discussed in detail during the course.

Subject Areas:

General Principles of Ship to Ship Transfer
Use of Safety Checklists
Case study
Simulator Exercise

USP:

Experienced faculty members conduct this course
Hands on training provided on Full mission bridge simulator

Eligibility:

This course is open to all existing seafarers and office staff.

6. Theory And Practice Of Ship handling (TPSH)

Duration: Three days

Conducted at: Mumbai

Objective:

The trainees who successfully complete this 3-days course will have gained experience in handling ships under various conditions and will make a more effective contribution to bridge team during ship manoeuvring in normal & emergency situations

Subject Areas:

An understanding of the basic principles of the ship handling
An understanding of the effects on the behaviour of the ship of wind, current, shallow water, banks and narrow channels and condition of loading
Familiarization with the use of engines and helm for ship manoeuvring
A greater understanding of bank, channel and interaction effect
A greater awareness and understanding of a good interactive communication style and benefit of building up a common shared mental model of the planned passage.

USP:

- 240^0 Full mission bridge simulator
- Chart room stocked with chart and publication for real practice
- Instructor to participant communication
- Mooring station
- Radar station
- VHF
- Sound effect
- Upgraded ice navigation class

Eligibility:

This course is for certified navigating officer of any rank, preferably chief officers just prior to promotion as Master.

7. Turkish Straits Dardanelles & Bosporus (TSDB)

Duration: Two days

Conducted at: Mumbai

Objective:

The trainees who successfully complete this course will have gained experience in navigating ships under various conditions in the Turkish Straits and will make a more effective contribution to bridge team during ship manoeuvring in normal & emergency situations.

Subject Areas:

Familiarization with passages of Dardanelles, Marmara Sea and Bosporus
Characteristics and navigational risk, Navigational regulations for the passage of Vessel through Dardanelles and Bosporus
Passage planning including contingency and emergency exercise
Familiarization with the simulator
Carrying out the planned exercise on the simulator
Position Reporting formats and procedures

USP:

Hands on training on the Full mission bridge simulator

Eligibility:

Trainees wishing to enter this course should have a minimum of six months watch keeping experience as officer in charge of a navigational watch.

8. Ship Handling Simulator (SHS)

Duration: One day

Conducted at: Mumbai

Objective:

The participants who successfully complete this course will have gained experience in handling ships under various conditions and will make a more effective contribution to bridge team during ship manoeuvring in normal & emergency situations.

Subject Areas:

An understanding of the basic principles of the ship handling

An understanding of the effects on the manoeuvring of the ship due to pivot point shift, shallow water, banks and narrow channels

A greater understanding of bank, inside channel and vessel interaction effect

A greater awareness and understanding of dealing with emergencies

USP:

Hands on training on the Full Mission Bridge Simulator

Eligibility:

This course is open to all deck officers

9. Electronic Chart Display Information System – TRANSAS (ECDIS - TRANSAS)

Duration: One day

Conducted at: Mumbai

Objective:

An officer in charge of a navigational watch needs to undergo below mentioned training for the new ECDIS training requirements:

- Generic Training
- Type-specific Training.

This course is intended to provide type-specific hands-on familiarization training, to all deck officers, on TRANSAS ECDIS models fitted on ships. Upon completion of this course the candidate will be able to familiarize with the ECDIS TRANSAS Model before joining a vessel fitted with that model along with various functions, menu & display layout, route planning & monitoring tools, safety features and various failures and updating tools on that particular model.

Subject Areas:

Operation of Power On/Off
Description of the ECDIS System Configuration
Operating of shifting the chart
Description of the menu structure
Displaying information on the Electric Navigational charts
Description of the Display Panel
Route Planning
Route Monitoring
Setting of ECDIS
Charts installation and updating
Changing over to backup system
Explain main differences in various JRC Models

USP:

1 Candidates are allowed hands on training with full access on a working TRANSAS ECDIS.
2 The faculty at SIMS have received training directly by a TRANSAS ECDIS representative.

Eligibility:

Mandatory for Deck Officers

10. Electronic Chart Display Information System – Japan Radio Corporation (ECDIS - JRC)

Duration: One day

Conducted at: Mumbai

Objective:

An officer in charge of a navigational watch needs to undergo below mentioned training for the new ECDIS training requirements:

- Generic Training
- Type-specific Training.

This course is intended to provide type-specific hands-on familiarization training, to all deck officers, on **JRC ECDIS** models fitted on board ships.

Upon completion of this course the candidate will be familiar with the JRC ECDIS along with the various function tabs, menu layout and operation of the keyboard. Important features such as route planning & monitoring tools, user maps, various alarms and failures and chart installation / updating are also part of this course.

Subject Areas:

Operation of Power On/Off
Description of the ECDIS System Configuration
Operating of shifting the chart
Description of the menu structure
Displaying information on the Electric Navigational charts
Description of the Display Panel
Route Planning
Route Monitoring
Setting of ECDIS
Charts installation and updating
Changing over to backup system
Explain main differences in various JRC Models

USP:

1 Candidates are allowed hands on training with full access on a working JRC's ECDIS.
2 The faculty at SIMS has received training directly by a JRC ECDIS representative.

Eligibility:

Mandatory for Deck Officers

11. Electronic Chart Display Information System – FURUNO (ECDIS - FURUNO)

Duration: Own Pace

Conducted at: Mumbai

Objective:

An officer in charge of a navigational watch needs to undergo below mentioned training for the new ECDIS training requirements:

- Generic Training
- Type-specific Training.

This course is intended to provide type-specific hands-on familiarization training, to all deck officers, on **FURUNO ECDIS** models fitted on ships, after a candidate has undergone the generic training. Upon completion of this course the candidate will be able to familiarize with the ECDIS FURUNO Model before joining a vessel fitted with that model along with various functions, menu & display layout, route planning & monitoring tools, safety features and various failures and updating tools on that particular model.

Subject Areas:

Operation of Power On/Off
Description of the ECDIS System Configuration
Operating of shifting the chart
Description of the menu structure
Displaying information on the Electric Navigational charts
Description of the Display Panel
Route Planning
Route Monitoring
Setting of ECDIS
Charts installation and updating
Automatic Sailing (TCS)
Changing over to backup system

USP:

1 Candidates are trained for FURUNO latest models

Eligibility:

Any deck officer who has successfully completed the ECDIS generic training course.

12. Advanced Training On Oil Tanker Operations (ASOT)

Duration: Three days

Conducted at: Mumbai

Objective:

This Advanced Safety Training on Oil Tankers course is primarily intended for Masters, Chief Officers and Second officers closer to promotion on Type 3 chemical tankers and oil tanker vessels. This course is more oriented towards the oil side with smaller portions covering chemical tanker topics as well.

A trainee on completion of this course will be able to carry out oil tanker operations / duties commensurate to his basic qualifications (support level/operator level) with due regard to our customers managed ships in a much more efficient manner.

Subject Areas:

- Precautions for H2S.
- MSDS Sheet interpretation, SOPEP, VRP.
- Important procedures listed SMS manual.
- Ship shore safety check list in detail.
- Commercial aspects.
- Loading plan.
- Discharge plan.
- Cargo equipment.
- Inert gas system.
- Tank cleaning, Crude Oil Washing plan.
- Simulator exercises on a fully functional Liquid Cargo Handling Simulator.
- Centrifugal pumps and Framo pumps.
- Cargo calculation.
- Ship to Ship operations
- Tanker mooring.
- Oil Record book entries.
- Type 3 chemical tankers, IBC code, Marpol Annex 2, cargo handling.

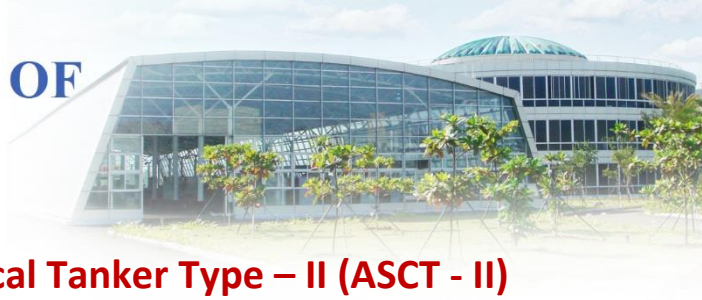
USP:

1 The course is made specifically to customer's requirement and complies with company procedures as per their SMS manuals.

2 The course includes training on the Liquid Cargo Handling Simulator and a practical demonstration of a working framo pump in our Tankroom.

Eligibility:

Persons joining as a Master, Chief Officers and senior second officers on oil tankers



13. Advanced Safety Training On Chemical Tanker Type – II (ASCT - II)

Duration: Three days

Conducted at: Mumbai

Objective:

This course is primarily intended to familiarize deck officers with the cargo handling on board a Type II chemical tanker. Our focus here is to enhance the candidate's knowledge about personal safety and safe tanker practices on Type-II chemical tankers. The course involves practical training in our TANK ROOM and on completing the course the trainees will be able to demonstrate correct loading / discharging techniques, proper cargo watch-keeping and hazard mitigation. The course adds value to the Indian Administration approved courses such as "Chemical Tanker Familiarization" (CHEMFAM) and the "Specialized Training Programme on Chemical Tanker Operation" (CHEMCO) which are also conducted here.

Subject Areas:

Material Safety Data Sheet (MSDS) Sheet
IBC code and MARPOL Regulations
Chemical tanker operation & Cargo Watch keeping
Special cargo care
Safety management
Cargo planning
Tank cleaning
FRAMO cargo pumping system

USP:

1 A practical course conducted using our TANK ROOM facility in addition to classroom lectures
2 The course covers all the safety aspects related to type II chemical tankers for a joining officer.

Eligibility:

Persons joining as a Master, Chief Officers and senior second officers on chemical tankers

14. Advanced Liquid Cargo Handling Simulator (Chemical) (C-LCHS)

Duration: Three days

Conducted at: Mumbai

Objective:

This course is theory & practical oriented. It is primarily intended for familiarization of Deck Officers with cargo handling equipment's and making cargo plan on chemical tankers.

The trainees who successfully complete this course will be able to explain the loading / discharging techniques, Tank cleaning and handling of various chemical cargoes safely. He will be able to identify the hazards and take appropriate precautions

Subject Areas:

Hazards
Ship shore safety check list
IBC code, MARPOL
Planning for loading
Planning for discharging
Executing of cargo plan
Operation of FRAMO pump, tank stripping
Tank cleaning
Wall wash test
Handling of special cargoes
Testing of cargo related equipment's

USP:

1 Hands on training provided in Tank room
2 Supported by Liquid cargo handling simulator

Eligibility:

Mandatory for Deck Officers holding Certificate of Competency 2nd Mate and above, working and or intending to work on Chemical Tankers

15. Advanced Training On Gas Tanker Operations (ATGO)

Duration: Three days

Conducted at: Mumbai

Objective:

This course is aimed to provide information, share experience and raise awareness about the practical operational and maintenance procedures on Liquefied Gas Tankers. The application of correct procedure on these subjects cannot be over-emphasized since hydrocarbon / chemical gases play a vital part in modern ship practice and their mishandling or misuse can lead, at the very least to lowered efficiency of operation and at worst to serious damage and even loss of life.

Successful completion of this course should enable trainees to serve on liquefied gas tankers in the capacity of master, chief engineer officer, chief mate or second engineer officer and to perform specific duties.

Subject Areas:

Properties and Hazards of cargoes
Cargo Equipment and instrumentation
Tank Environment Control
Safety Precaution and measures
Emergency operations
Firefighting Systems & procedures
Hazards & Safety

USP:

1 Details of tank room –practical course in addition to classroom lectures
2 Supported by Liquid Cargo Handling Simulator

Eligibility:

Operational level and management level seafarers. Should have minimum 3 month sailing experience on gas tankers and must have done STCW 95 gas modular courses.

16. Bulk Carrier Training (BCT)

Duration: Two days

Conducted at: Mumbai

Objective:

The trainees who successfully complete this course would have gained theoretical knowledge to perform specific duties and carry specific responsibilities in connection with cargo in the capacity of an officer on board a Bulk Carrier managed by ESM

Subject Areas:

Introduction to Bulk carrier
Cargo calculation procedures
Exercise on cargo calculation procedure
Important aspects of special bulk cargoes
Procedures & requirements of draft survey
Understanding Safety& vulnerability on Bulk Carriers
Trade pattern & various other aspects of the specific company Bulk carriers

USP:

1 Concept building
2 Practical sessions

Eligibility:

All deck officers

17. Reefer Container handling course (In process)

18. Operations And Maintenance Of FRAMO Cargo Pumping System (FRAMO)

Duration: Three days

Conducted at: Mumbai

Objective:

This course has been designed by FRAMO and conducted by SIMS. This course is meant for all officers on board ships fitted with FRAMO cargo pumping system. The course covers the hydraulics, controls, cargo pumping theory with associated practical.

Trouble shooting, testing alarms & interlocks are included. The cargo tank with working FRAMO hydraulic system installed at SIMS is used to demonstrate Loading, Discharging, Stripping, Emergency operation with Portable pump and Cofferdam purging operations.

Subject Areas:

Introduction
General Arrangement and Hydraulic Circuit
Hydraulic Oil and Filtration
Control Valves
FRAMO Cargo Pump
Operation of Cargo Pumps
Dismantling and assembling of cargo pump

USP:

1 Only one of its kinds with actual stainless steel tank and FRAMO system in our Tank room
2 Fully fitted- out cargo tank replica with FRAMO pump- FIRST IN THE WORLD

Eligibility:

All Shipboard officers and engineers

19. Boiler Combustion & Control (BCC)

Duration: Two days

Conducted at: Mumbai

Objective:

The trainees, upon successful completion of the course would have gained theoretical and practical knowledge regarding the auxiliary boiler combustion system, steam raising procedure, testing of alarms and shut downs – operation, troubleshooting and maintenance aspects.

Subject Areas:

The following subject areas will be covered:

Overview of boiler combustion system and steam raising

Individual components: - Assembly and design, working principle, fault conditions and maintenance of following:

- Burner assembly
- Airflow control, Air/ Fuel ratio controller
- Automatic programme for steam raising, dynamics of control behavior with varying steam demand
- Boiler drum water level sensing, alarms and testing
- Sensing devices for flame detection, drum pressure, and airflow
- Control circuit, safety circuits

Operation of the boiler under changing steam demand conditions, monitoring of parameters

Emergency operation of boiler in case of control failure

USP:

Eligibility:

All Engineers and Electrical Officers

20. Automation & Control (AUTO)

Duration: Five days

Conducted at: Lonavala

Objective:

This course is theoretical & practical and is primarily intended for familiarization of engineers and electrical officers with shipboard automation and control practices in the areas of measurement techniques of pressure, level, flow and temperature; instrumentation techniques, remote transmission , building PI diagrams, PID controllers.

The trainees who successfully complete this course will be able to explain the working and features of shipboard automation and control systems.

Subject Areas:

Different techniques of measurement of pressure, flow, level, temperature, etc.
Pneumatic Transmitters and current converters
Pneumatic systems using bellows, flapper, nozzle
Introduction to two steps, proportional, integral, derivative actions
Different arrangements for controllers using pneumatic components
Pneumatic Nakakita controller
Working of different temperature, level sensors
Experimentation using a servomechanism trainer for control of speed
Use of Nakakita pneumatic controller for control of temperature
Operation of the Miura boiler, study of its components, related functions, safety systems, cutouts, electrical relay operation, and study of the electrical circuit diagram
Use of Nakakita controller for control of level
Study of valve positioners and control valves

USP:

Experienced faculty members conduct this course and hands on training provided

Eligibility:

All Engineers and Electrical Officers

21. Main Engine Manoeuvring System (MEMS)

Duration: Two days

Conducted at: Lonavala

Objective:
A main engine manoeuvring system based on B&W SMC 60 has been installed with actual ship board components. The 2 day course has been designed to cater to all engineers and electrical officers to understand and get hands on experience on the system.

Subject Areas:
Theory of Logic Gates
Basics of Starting & reversing
Pneumatics Valves and accessories
Symbols and Convention
Understanding of a pneumatic control and building simple circuits on Pneumatic trainer
B&W manoeuvring system in detail, circuit tracing and component identification

USP:
Hands on training on trying out & trouble shooting

Eligibility:
All Shipboard engineers

22. PHOENIX - Planned Maintenance System Course (PHOENIX)

Duration: One day

Conducted at: Lonavala

Objective:

This course introduces the candidates to the very basics of planned maintenance systems & makes them adept users of the software. Various aspects of the planned maintenance system are discussed, structure of database & correct method of reporting planned &breakdown maintenance jobs. Inventory control, Spare Parts & Purchase order & requisition are discussed in detail.

Subject Areas:

Component Grouping
Searching Components, critical Spares
Filtering work orders by rank, date, overdue, etc.
Updating Counters
Creating unplanned work order
Reporting work orders
Updating of Stock
Create Location
Creating a requisition for spares
Receiving purchase orders in full or part
Stock control (inventory corrections)
Export/Import

USP:

In-house developed software
Data entry in the live version of the software

Eligibility:

This is course is intended for all officers both on the navigation & engineering side.

23. Electrical Practice (EP)

Duration: Twelve days

Conducted at: Mumbai &Lonavala

Objective:

The trainees who successfully complete this course will be familiarized with electrical knowledge on electrical equipment's such as motors, starters, alternators, transformers, lighting and wiring systems, working principle, operation and maintenance on the above system.

This course helps the trainees to explain the working and features of shipboard electrical systems, circuit diagrams, working of starter panels using embedded systems.

Subject Areas:

Electrical Power Systems, Three phase power, the various systems of three phase power

A comparison study of three phase – three wire power systems as opposed to three phases – four wire power systems on board a ship

Distribution of power to various consumers & concept of Switchboard systems

Group starter Panels

Relays & Timers

Motors – Three phase induction, squirrel cage motors.

Starting characteristics & Torque considerations

Starter Panels

TERASAKI Starter panels

USP:

Actual hands on training

Eligibility:

Any engineer or electrical officer

24. Familiarization & Safety Training on Chemical Tankers (FSCT)

Duration: Three days

Conducted at: Mumbai

Objective:

At the end of the course, the candidates shall be able to:

- Explain the hazards of the cargoes carried on chemical tankers
- Describe the operations and maintenance of submerged cargo pumps
- Explain the procedures and safety precautions during all cargo operations and tank cleaning
- Understand precautions for various special cargo
- Demonstrate tank inspection and wall wash test and passivation

Subject Areas:

- HAZARDS: Health, Environmental, Flammability
- Special Cargoes: Molasses, Sulphuric acid, Phenol
- Cargo equipment
- Cargo operation
- Critical Cargo Operation
- Pump operation
- Personal Protective Equipment
- Hose connection / Disconnection
- Loading &Discharging
- Line Flushing / Clearing frozen lines
- Tank cleaning
- FRAMO pump – Operation & maintenance
- Emergency portable pump (Rigging procedures)
- PV Valve Testing and overhaul
- Practical in tank room for operations and overhaul

USP:

A practical course conducted using our TANK ROOM facility in addition to classroom lectures

Eligibility:

All junior officers &ratings joining chemical tankers

25. Familiarization & Safety Training on Gas Tankers (FSGT)

Duration: One day

Conducted at: Mumbai

Objective:

Successful completion of this course will enable trainees to serve on liquefied gas tankers in the capacity other than that of master, chief engineer officer, chief mate or second engineer officer and to perform specific duties.

Subject Areas:

This course is supplementary to the Indian Administration approved Liquefied Gas Tanker Familiarisation (GASFAM) course. It includes basic safety and pollution prevention precautions and procedures, layouts of fully pressurized liquefied gas tankers, types of cargo, their hazards and their handling equipment, general operational sequence and liquefied gas tanker terminology.

The following subject areas will be covered:

- Development of fully pressurized gas tankers
- Important terms
- Types of gas tankers
- Cargo handling equipment and instrumentation
- Cargo work
- Vessel underway in loaded condition
- Discharging
- Ship to Ship transfer
- General operation
- Safety precaution and emergency operations

USP:

Hands on training in the use of portable Gas meters

Eligibility:

All Officers and Ratings

26. Familiarization & Safety Training on Oil Tankers (FSOT)

Duration: One day

Conducted at: Mumbai

Objective:

At the end of the course, the candidates shall be able to:

- Describe the types of oil tankers
- Explain the hazards of the cargoes carried on oil tankers
- Explain the operations and maintenance of centrifugal cargo pumps
- Explain the purpose of a stowage plan, cargo plan
- Explain the procedures & safety precautions during all cargo operations on a oil tanker
- Explain the procedures & precautions during tank cleaning / gas freeing operations on oil tankers
- Explain the purpose of ship / shore safety check list
- Explain IG system, various alarms / trips
- Demonstrate the operation / limitation / calibration of portable gas meters

Subject Areas:

Training needs are as identified by our customers, and includes topics that are not covered in the Indian Administration / IMO approved Oil Tanker Familiarization (OILFAM) course. On completion of this course the candidates shall be able to apply relevant regulations and standards concerning operational safe handling on oil tankers.

USP:

Hands on training in the use of portable Gas meters

Eligibility:

All Officers and Ratings

27. Behaviour Based Safety (BBS)

Duration: Half day

Conducted at: Mumbai

Objective:

This course covers the technique that can be used to identify behavioural issues pertaining to officers and crew on board. It includes collection of data of 'safe' and 'unsafe acts' and modification of behaviour.

The trainees who successfully complete the BBS course will be able to demonstrate use of BBS technique to identify critical behaviors, observe work areas and modify behavior of the team members.

Subject Areas:

History of safety performance evolution
Relation between safety and behaviour
Concepts of Behaviour Based Safety
ABC model
Effect of antecedents and consequences on behaviour
Behaviour Based Safety implementation process map
Different steps of BBS process map
Methods to modify antecedents and consequences
Open forum, discussion and conclusion

USP:

1. Course content presented in very simple and effective way.
2. A totally new approach to tackle unsafe behaviour in shipping industry.

Eligibility:

Any seafarer can attend this course.

28. Hazardous Area Course (HAZAREA)

Duration: Five days

Conducted at: Lonavala

Objective:

This course is theoretical & practical and is primarily intended for familiarization of engineers and electrical officers with hazards involved in using electric appliances in explosive atmospheres. This covers the causes of explosion, principles of zoning, gas grouping, ingress protection, explosion protective ratings of electrical appliances, philosophy behind protection systems, certification of explosion protected instruments, and exposes the candidates to the topics that concern the safety of operating within these areas.

The trainees who successfully complete this course will be able to explain the causes of explosions in ships, details of gas grouping and explosion protected instruments, zonal classification and certification of explosion protected instruments.

Subject Areas:

1. Demonstrating a good understanding of the concept of Hazardous area & the terminologies thereto related.
2. Understanding the hazards of using electrical equipment in the presence of flammable gases vapors and dust .
3. Comprehend the basics of explosion protection.
4. Static electricity & protection technique .
5. Earthing & bonding.
6. Sources of ignition.
7. Classification schemes.
8. Zoning & gas concentration diagrams.
9. Intrinsically safe equipment and other explosion protected equipment.
10. Apparatus that can be used in explosive zones or hazardous area.
11. Understanding the limitations of hazardous area protection.
12. National codes, Atex directive & legal issues.
13. Maintenance.
14. Safety in electrical system.

USP:

Experienced faculty members conduct this course.

Eligibility:

This course targets all Engineer officers, Electrical Officers & ETO's.

29. ISM Internal Auditor (ISMIA)

Duration: Two days

Conducted at: Mumbai

Objective:

The aim of this 2-days course is to provide the participant with the necessary skills to be able to plan, prepare for and conduct an effective Internal Safety Audit on an implemented ISM Code Safety Management System.

Subject Areas:

The contents of ISM code
How to make use of the elements of the ISM code to conduct an internal audit
How to plan & prepare for the audit
The traits of an auditor
Techniques involved in conducting an audit
How to write a non-conformity report

USP:

Trained Trainers

Eligibility:

The course is designed only for senior officers who can be asked to conduct or participate in an internal audit on board.

30. Marine Pollution Compliance (MARPOL)

Duration: One day

Conducted at: Mumbai

Objective:

This course is a one day course. This course was developed to discuss the correct understanding, interpretation and application of the MARPOL convention and compliance as required by USCG and other Port states.

Subject Areas:

Understanding of MARPOL regulations
To understand USCG-MARPOL violations/ commercial implications
Understanding the requirements under Oil Pollution Act (OPA 90) and How to report in case of Emergency and Oil Pollution as per the Vessel Response Plan.
Learn Operation and Maintenance of Oily Water Separator /Oil Content Meter /Incinerator
To learn the contents of Technical circular and practices to be followed for MARPOL compliance
IOPP certificate and procedure for filling engine room oil record book as per MARPOL Annexe-1
Exercise on Oil Record Book
Proactive compliance with Voluntary Environmental Compliance Programme (VECP)

USP:

Experienced faculty members conduct this course
Proactive measures to comply with MARPOL latest regulations all over the world.

Eligibility:

All officers

31. Port State Control And Oil Major Inspections (PSCOM)

Duration: Two days

Conducted at: Mumbai

Objective:

This course is intended for officers and the aim of the course is to develop understanding of Port State Control Inspections, Oil Major Vetting inspections and provide guidance on the preparation and conduct of such inspections to enable ship staff to ensure from the point of view of safety of life, ship and pollution prevention, that the ship is fit for service she is intended and fully complies with all applicable rules, regulations and conventions.

The basic aim being passing the inspections with a clean record and have zero deficiencies.

Subject Areas:

Port State Control Inspections

Oil Major Vetting inspections

USP:

Our faculty regularly upgrades their knowledge with the latest regulations / developments and keeps track of the trends in PSC / Vetting observations and brings these to the notice of the trainees.

Eligibility:

All deck and engineer officers including deck cadets and trainee marine engineers who have undergone pre sea training

32. Safety Awareness (SA)

Duration: One day

Conducted at: Mumbai

Objective:

The objective of this 1-day course is to inculcate a SAFETY CULTURE among all the shipboard personnel. The trainees who successfully complete this course will understand the Companies and the customer's safety culture, with regards to HEALTH, SAFETY and ENVIRONMENT PROTECTION.

Subject Areas:

To develop a safety culture
Take 5: a Personal TOOL to be used by all on board and ashore.
GOLDEN RULES: basic safety rules followed by personnel worldwide.
Getting Health Safety and Environment quality Right
Environment Protection, Legal Implication if not followed.

USP:

Course content presented in very simple and effective way
A new approach to inculcate safety as a culture in the participants

Eligibility:

Any officer

33. Ship Board Operating Environment (SOE)

Duration: One day

Conducted at: Mumbai

Objective:

Shipboard Operating Environment is a company specific course designed for personnel joining our customers Vessels to familiarize them with the company IT protocol. It gives them an insight into the standards; procedures & reporting systems that BP want their personnel to adopt.

Subject Areas:

The layout or structure of the network, workstations, permitted& legal software lists are discussed.
The communication platform & privileges extended to the officers are made known to the joining personnel. It is indeed a very beneficial course that BP shipping has invested in, taking a day to familiarize their personnel with BP IT protocol & some other legal or ethical matters.
This course is run for a day where the joining personnel are made familiar with IT protocol, backup systems, Contingency measures & reporting a breakdown in the IT system to fixing the problem.
Introduction to other software & utilities like ENTEK & other CBM packages are briefly discussed.
The course is meant to be interactive aimed at having an organized & trouble-free It system which is beneficial to shipboard personnel & the office with minimum downtime & effective usage of the IT system.

USP:

Experienced faculty members conduct this course

Eligibility:

This course is open to all officers

34. Effective Behaviour Management

Duration: One day

Conducted at: Mumbai

Objective:

On completion of training, trainees will have gained knowledge and a clear concept of EBM using the audit technique of 'testing-verifying-recommending-correcting' based on the method of relating behavior and culture towards safety.

Subject Areas:

Effective Behaviour Management is a powerful tool at the work place to develop the safe working culture of the staff to follow correct procedures to prevent accidents. The course covers the theory and techniques of advances safety auditing with supportive videos and practical mock sessions. It is based upon techniques that have been proven in many different industries, cultures and countries, to have dramatic effects upon the safety related behaviours at all levels within the organization.

USP:

Experienced faculty members conduct this course

Eligibility:

Senior Officers

35. Command Oriented Course(COC)

Duration: Three days

Conducted at: Mumbai

Objective:

The trainees who successfully complete this course will have gained knowledge in improving management on board with emphasis on the responsibilities with reference to the legislation, practices and what is expected from employer, flag State, Port State and classification societies. The trainees will make a more effective contribution to smooth operation of the ship in normal & emergency situations. The trainees will gain
An understanding of the role of the Master and Chief Engineer on board the Ship
An understanding of the Ship manager and the way ESM functions
A greater understanding of charter parties, legislative and contractual obligation
A greater understanding of man management
An insight into insurance policy
An understanding of bunker planning and bunker disputes

Subject Areas:

Demand & expectations of various parties, ship owner, charterer, ship manager, ports & terminals, flag state, port state, underwriter and classification societies.
The role of a ship manager and the way ESM functions, role of shore based staffs.
Maritime legislation, Legal authority of Ship Master and overriding authority
Group exercise on recent on board accident
Working of H&M insurance & P+I club.
HSEQA, presentation on the integrated management system
Voyage bunker planning exercise
On board management for efficient and effective working Charter party terms (inclusion and exclusions with reference to legal and commercial implications) Discussion on LAYCAN, NOR, note of protest, B/L, LOI, COGSA, Salvage and towage contract.
Loss prevention measures
Surveys and certification
Interaction with the manning department and on board crew documentations
Controls of spares, stores, provisions, bond.

USP:

1 A special course developed by SIMS for senior deck officers of the ship
2 Course prepares aspiring officers for command

Eligibility:

This course is for senior deck officer just prior to promotion as Master. However, anyone in a senior rank may attend to enhance their knowledge and concepts.

36. Electronic Document Management System (EDMS)

Duration: One day

Conducted at: Mumbai

Objective:

This course is applicable to all officers joining ESM fleet vessels. The course objective is familiarizing the candidates with ESM policy and procedures.

Subject Areas:

ESM safety management system manuals and them use.
Work permit system
Risk Assessment & JHA
Use of different types of forms, checklists, work permit
ESM statistical analysis of static PSC and OIL MAJOR Inspection parts performance
Incident categorization
Critical equipment
Decks officers duties, HSSE meeting, use of forms
Important company guidelines
ISO 9000, ISO 14000, OHSA 18000 standards
Effective behaviour management
Drug - alcohol policy.
Medical treatment, Rest hour policy
Daily Work plan, Open reports & complaints
Document revisions

USP:

Familiarization with the company policy and recent amendments
Updates on new regulations

Eligibility:

All officers

37. Root Cause Analysis (RCA)

Duration: 4.5 hrs.

Conducted at: Mumbai

Objective:
This one day course is the new concept of accident or incident investigations which goes well beyond the superficial factors.

Subject Areas:
This technique based on MSCAT involves learning the way to carry out a detailed investigation into any accident to find out the root cause and then to suggest changes to the management system to prevent reoccurrence.

USP:
Trainers trained in RCA Technique.

Eligibility:
All officers

38. Medicare Refresher Course (MED-REF)

Duration: One day

Conducted at: Mumbai

Objective:

This is a 1 day refresher course for proficiency in medical care on board ship

The training, in particular is intended for seafarers who are designated to take charge of medical care on board ship, in accordance with:

Regulation VI/4 of the Annex to the STCW convention and section A-VI/4 (4-6) of the STCW code -The Merchant Shipping Regulations

This course will provide the refresher training required to achieve the Proficiency in Medical Care On board Ship (PMC) course, as well as the additional training requested by BP Shipping.

Subject Areas:

Knowledge of the types of ships' medical equipment and stores and their use

Diagnose medical problems on board ship

Provide medical care to the sick and injured and deal with medical emergencies while they remain on board

USP:

The course is conducted by highly qualified and experienced doctors

Eligibility:

Officers with at least 18 months sea service, Proficiency in Medical First Aid aboard Ship Course within the last 5 years

39. Behaviour Based Safety – Crew (BBS-C)

Duration: Half day

Conducted at: Mumbai

Objective:

This course covers the technique that can be used to identify behavioural issues pertaining to officers and crew on board. It includes collection of data of 'safe' and 'unsafe acts' and modification of behaviour.

The trainees who successfully complete the BBS course will be able to demonstrate use of BBS technique to identify critical behaviors, observe work areas and modify behavior of the team members.

Subject Areas:

History of safety performance evolution
Relation between safety and behaviour
Concepts of Behaviour Based Safety
ABC model
Effect of antecedents and consequences on behaviour
Behaviour Based Safety implementation process map
Different steps of BBS process map
Methods to modify antecedents and consequences
Open forum, discussion and conclusion

USP:

1. Course content presented in very simple and effective way.
2. A totally new approach to tackle unsafe behaviour in shipping industry.

Eligibility:

Any seafarer can attend this course.

40. Basic Framo Course for Fitters (FRAMO - B)

Duration: One day

Conducted at: Mumbai

Objective:

This is 1 day course for fitters and motor man. This course covers the complete FRAMO cargo pump installed on board tankers. The one day course includes cargo pumps, sealing arrangement and hydraulic motor and drives, maintenance of critical components. Important aspects of lecture topics are supplemented with hands-on-practical demonstration. The course has been developed and conducted by SIMS.

The trainees who successfully complete this Course will have gained theoretical and practical knowledge on the working principle, operation and maintenance of the cargo pumps: -

Subject Areas:

Theory and operating principle of equipment
Theory of Condition monitoring and identifying the need for maintenance
Planned maintenance routines
Safe working practices

USP:

Use of special tools

Eligibility:

All Shipboard fitters and motormen

41. Basic Tanker Operation Training Course (BTOT)

Duration: One and Half days

Conducted at: Mumbai

Objective:

This basic familiarization course is for ratings, who are first time joiners on oil and chemical tankers. It is primarily intended for familiarizing these ratings on oil and chemical tankers.

The trainees who successfully complete this course will be able to explain the loading / discharging and various other operations on oil and chemical tankers. They will be able to identify the hazards involved and also take appropriate precautions.

Subject Areas:

Hazards
Tanker layout
Loading and discharging operation
Inert gas system & COW
FRAMO pump
Enclosed space entry
Tank cleaning
Handling of special cargoes
Cargo equipment
Fire Fighting & MARPOL
Vetting inspection
Chemical Spills

USP:

1 Concept building about all types of tankers
2 The course covers all the safety aspects for a joining crew.

Eligibility:

Deck and engine crew who have sailed only on bulk carriers and are joining tankers
All ratings who have completed Oil Tanker Familiarization (OILFAM) or Chemical Tanker Familiarization (CHEMFAM) course.

42. Integrated Safety Training For Ratings (ISTR)

Duration: Four & Half days

Conducted at: Mumbai

Objective:
Rating who successfully complete this course will be able to explain the different safety aspects related to different types of work in ships and also will improve in developing a safety culture in their work.

Seamanship
Construction of ropes
Practices on Knots & Hitches
Practices on Rope splicing & whipping
Practices on wire & hawser splicing

Painting
Surface preparation
Care of equipment
Types of paints

Mooring
Safety during mooring
Handling of heaving line & wire ropes
Methods of inspection

Firefighting
Mock-up structure
Blind fold entry
Rescue operation

Free fall lifeboat
Safe preparation for launching

Oil tanker
Safety
Operations:
1. Crude Oil Washing
2. Inert Gas
3. Cargo

P/V valve testing
Engine room operations

HSEQA

Job hazard analysis
Risk assessment
Area of Responsibility
Permits system including filling up of Enclosed Space Entry
Rescue Operation from Enclosed Space
Lock out Tag out
Step change for Safety – learning from incidents
Behaviour based safety (BBS)
MLC – 2006 –open report & grievances redressal
Work Rest Hours

Security

Security Duties
Gangway briefing

USP:

1 Actual hands on seamanship training for crew by experienced instructor.
2 The course covers all the safety aspects for a joining crew.

Eligibility:

Any rating

43. Marine Pollution Compliance - Crew (MARPOL-C)

Duration: Half day

Conducted at: Mumbai

Objective:

This course is developed to discuss the correct understanding, interpretation and application of the MARPOL convention and compliance as required by USCG and other Port states.

After successful completion of the course students will be able to -
Understanding of MARPOL regulations
To understand USCG-Marpol violations/ commercial implications
Understanding the requirements under OPA 90 (VRP) and How to report in case of Emergency regarding Oil Pollution as per OOPS.
Learn Operation and Maintenance of OWS/OCM/Incinerator
Proactively comply with Voluntary Environmental Compliance Programme (VECP)

To learn the contents of Technical circular and practices to be followed for MARPOL compliance, IOPP certificate and procedure for filling engine room oil record book as per MARPOL Annexe-1

USP:

Latest regulations and case studies

Eligibility:

Any seafarer

44. MARITIME ENGLISH (ME)

Duration: 2 days

Objective:

At the end of this course the trainee's will be able to enhance their use of English language as the language of communication aboard ships.

- The reason for learning English
- Instructions & Command
- Dictation
- Conversation
- Making simple sentences
- Basic questions asked by PSC inspectors
- Exercise-Reading, writing, Listening and Speaking.

Subject Areas

For new entrants to merchant navy and existing seafarers who are non-native speakers of English and wish to update and upgrade their level of English communication so as to become better and more efficient seafarers while on duty aboard foreign-flagged ships.

Eligibility

All ratings with basic knowledge of English

45. Pumpman Course (PMP)

Duration: 15 days

Conducted at: Mumbai & Lonavala

Objective:

This is a 15-days in-house training course which is developed to train deck and engine room ratings having an aptitude to perform Pumpman duties on oil tankers in the Fleet. This course provides an understanding of safe Oil Tanker operations, under International, National & Local Regulations applicable to Oil Tanker operations. It aims to improve the theoretical and practical knowledge and skills of the crew members involved in the loading and unloading of cargo from oil tankers by focusing on optimization of resources for cargo handling, and the maintenance and repair of associated cargo handling equipment on oil tankers. The trainees who successfully complete this course will be able to explain the tanker operations, safety in all tanker operations carry out the duties required of a tanker pump man on the deck and in the pump room.

Subject Areas:

Safe Working Practices on Oil Tankers
Use of Lathe Machine for various jobs on it
Electric Arc welding
Few aspects of Auxiliaries in the Engine Room
Seamanship aspects such as handling cranes, davits, moorings and gangways
Oil Tanker piping and pumping systems
Hazards associated with Petroleum Cargoes
Pump room machinery and overhaul
IG Systems and Layout
Tank cleaning, COW and other tanker operations including purging and gas freeing of tanks and lines
STS, Ballasting and Deballasting operations as well as Permit to Work systems
FRAMO pumps and Static Hazards

Case studies are discussed at every level

USP:

1. SS Cargo tank at Mumbai
2. Full-fledged marine repair workshop at Lonavala for practical
3. Tanker Manifold for practising connecting, disconnecting, flushing and pressure testing of lines and hoses
4. Liquid Cargo Handling Simulator for tracing pipelines on deck and Pump room
5. Practical in overhauling of pumps
6. Testing of PV valve
7. Use of gas meters

Eligibility:

All Shipboard crew e.g. fitters, Pumpman and motorman with age less than 50 years and has completed basic tanker safety course apart from other statutory courses can participate in this course.

46. Team Work (TW)

Duration: One day

Conducted at: Mumbai

Objective:

This course is meant for all ship board personnel. The objective is to introspect personal behavior – insight into those actions that enhance / obstruct team work.

Give insights to various aspects of team work – characteristics of effective teams, obstacles and tools to overcome friction in teams.

USP:

Help teams work more effectively and efficiently

Eligibility:

All Shipboard ratings

47. Chemical Tanker Manifold Training Course (CTMT)

Duration: Two days

Conducted at: Mumbai & Lonavala

Objective:

This course is theory & practical oriented. It is primarily intended for familiarization of chemical tanker manifold connections and other jobs related to cargo operation for deck ratings and officers.

The trainees who successfully complete this course will be able to carry out various jobs related to manifold connections on chemical tanker without injury. Also he will be able to identify the hazards and take appropriate precautions.

Subject Areas:

MSDS Sheet
Equipment's of chemical tanker
Pre loading preparation
Pump operation & Enclosed space entry.
Tank cleaning
Chemical tanker manifold
Hose connection / Disconnection
PPE

USP:

Actual Chemical Tanker Manifold set up
Concepts building on correct hose connection and disconnection technique
The course covers all the safety aspects for a joining crew and officer working on chemical tanker

Eligibility:

Any junior officer or crew member joining chemical tanker

48. RATING CHEMICAL TANKER MAINTENANCE COURSE (RCTMC)

Duration:1 day

Conducted at: Mumbai

Course Objectives

The course enables the participants to carry out maintenance work on board Chemical tankers with an understanding of commercial requirements vis-à-vis safety; with more practical training on the chemical tanker work.

Subject Areas:

The following subject areas will be covered:

- Tank passivation
- Tank coatings repairs and maintenance
- Ship specific chemical tankers specifications
- GA Plan, fire plan interpretation
- PV valve and tank heating coil pressure testing
- Tank cleaning machine overhaul

Eligibility

All ratings and petty officers

49. PRACTICAL SEAMANSHIP TRAINING (PST)

Duration: Two days

Conducted at: Mumbai

Objective:
This course is designed to impart training to our deck ratings in various deck machinery eg windlass, anchors etc.

Subject Areas:
Care and maintenance of windlass, anchors and bow stopper is explained. Different types of ropes and wires are also explained including their characteristics, care and maintenance of fibre and wire ropes.

Extensive practical training is imparted to all deck ratings in whipping, seizing, splicing, various knots, bends and hitches, correct use of rope and wire stopper and securing the ropes on bitts.

USP:

Eligibility:
All Deck Ratings

50. General Safety Training (GST)

Duration: One day

Conducted at: Mumbai

Objective:
This course is designed to familiarize all deck ratings with the safety aspects and procedures on board the ships.

Subject Areas:
The course covers general safety precautions and procedures followed on board especially during mooring/unmooring operations, when operating cranes, when using power tools, electrical and hydraulic equipments. Candidates are also instructed on the proper use of personal protective equipment (PPE), Emergency Escape Breathing Device (EEBD), dust mask, resuscitator, stretcher, harness and Self Contained Breathing Apparatus (SCBA).

Throughout the course, emphasis is placed on using the “Take-5” approach to assess the risks involved and to prevent any accidents.

USP:

Eligibility:
All Ratings

51. Enhanced Safety Training on Chemical Tankers (ESCT)

Duration: Two & half day

Conducted at: Mumbai& Lonavala

Objective: On completion of this Course the candidate would be able to:
Understand the accident causes and prevention
Understand the requirements of IBC & MARPOL for different operations.
Describe the requirements for preparation of loading, discharging & tank cleaning procedures
Demonstrate the manifold connection / disconnection procedures.
Demonstrate the various equipment check and leak test procedures
Demonstrate the correct procedure for donning PPE including gas tight suits

Subject Areas:
Accident Causes And Prevention
Requirements Of Ibc&Marpol For Different Operations.
Preparation Of Loading, Discharging & Tank Cleaning Procedures
Manifold Connection / Disconnection Procedures.
Equipment Check And Leak Test Procedures
Donning Ppe Including Gas Tight Suits

USP:
The Enhanced Training on Chemical tanker course is conducted to enhance the knowledge of experienced deck ratings sailing on ESM managed chemical tankers.

Eligibility:
All Ratings

52. Bridge Team Management - Refresher (BTM-R)

Duration: Two days

Conducted at: Mumbai

Objective:

This course aims to refresh the basic navigation and watch keeping knowledge. It also aims to build up some of the essential behavioral skills regarding bridge team management. Some of the practical skills of routine navigation are incorporated in the simulator exercises.

Subject Areas:

Analyze the importance and interpretations of regulations governing navigation.
Identify the theory and principles of passage planning and teamwork followed by practical exercises, importance of situational awareness.
Demonstrate practice of constant radius turns, wheel over line, use of turning circles and safety margins is included as part of the passage planning and exercises.
Interpret finer concepts of collision avoidance regulations and their proper application on board, especially in restricted visibility.
Describe the correct procedures for chart correction.
Anchoring procedures & Anchoring in congested waters
Bank effect, Squat effect

USP:

1 Concept building
2Updates on the latest conventions and amendments (STCW, SOLAS, ROR)
3 Simulator Exercises on different type of ships and in different areas of the world on a Full Mission Bridge simulator

Eligibility:

Any deck officers who have obtained a certificate of competency can attend this course to enhance their knowledge and concepts.

53. Ship Manoeuvring Simulator (SMS)

Duration: Three days

Conducted at: Mumbai

Objective:

This is an intense course of theory coupled with exercises on a Full Mission Bridge Simulator. Trainees are put through high traffic areas with varying conditions of current, weather and visibility so they get a better understanding of ship handling.

Subject Areas:

Knowledge about the principles of ship handling in various conditions and their practical application
Passage planning including planning for any contingencies
Navigational watch keeping practices, procedures and collision avoidance.

USP:

- 240^0 Full mission bridge simulator
- Chart room stocked with chart and publication for real practice
- Instructor to trainee communication
- Mooring station
- Radar station
- VHF
- Sound effect
- Upgraded ice navigation class

Eligibility:

This course is for management level officers. Ratings may assist in the course for steering purposes only during bridge simulator exercise.

54. Auxiliary Machinery Maintenance Course (AMMC)

Duration: Two days

Conducted at: Lonavala

Objective:

Trainees who successfully complete this course will have gained theoretical knowledge regarding condition monitoring and maintenance of various auxiliary machineries including turbocharger.

Subject Areas:

This course is mainly a practical oriented course with minimum required lectures for emphasizing safety aspects. The course covers important aspects of personal safety, theory of condition monitoring and the practical exercise in opening, cleaning and boxing up of the equipment.

The following subject areas will be covered:

- Theory and operating principle of equipment
- Theory of condition monitoring and identifying the need for maintenance
- Planned maintenance routines
- Safe working practices
- Use of special tools
- Checks to be carried out before opening up
- Opening up, cleaning and boxing up of equipment
- Checks to be carried out after boxing up

USP:

Experienced Trainers

Eligibility:

All Engineers and Electrical Officers

55. Basic Hydraulic Course (BHC)

Duration: One day

Conducted at: Mumbai

Objective:
This course has been designed as a prelude to the FRAMO course, to make all the ship board officers understand the basics of hydraulic systems, components and hydraulic oil quality.

Subject Areas:
The following subject areas will be covered:

- Introduction to hydraulics
- Description of various hydraulic components
- Hydraulic oil filtering and monitoring arrangements
- Practical sessions

USP:
Experienced Trainers

Eligibility:
All Engineers, Deck Officers and Electrical Officers

56. Advanced Training On Chemical Tanker Operations (ATCO)

Duration: Three days

Conducted at: Mumbai

Objective:

This is course aimed at officers and cadets who have already worked on chemical tankers to enhance their knowledge.

Subject Areas:

Hazards on Chemical Tanker
MARPOL Annex II.
Cargo Record Book
FRAMO pump in details
Familiarization with cargo tank
Loading, unloading & various other operations in the tank room
Tank cleaning machine, hose and cargo hose maintenance.
Gas-Freeing
PV-Valve – Overhaul and testing
Wall Wash Test
Stowage plan
Pickling and passivation

USP:

1 A practical course primarily conducted in our unique tank room facility.
2 Chemical testing laboratory, not available elsewhere
3 Shower room
4 Supported by Liquid Cargo Handling Simulator

Eligibility:

Persons joining as a Master, Chief Officers and senior second officers on chemical tankers

57. Advanced Training On Oil Tanker Operations (ATOO)

Duration: Three days

Conducted at: Mumbai

Objective:

This course is intended for officers joining company managed oil tankers. The course consists of various levels of oil tanker training which are not covered in the Indian Administration/ IMO approved TASCO course, with main focus on typical company managed ships. A trainee on completion of this course will be able to carry out his oil tanker operations / duties commensurate to his basic qualifications (operator level / management level) with due regards to company managed ships in a much more efficient manner.

Subject Areas:

Types of Tankers
Characteristics of Cargoes
Hazards
Toxicity
Hazard Control
Safety Equipment and protection of personnel
Interpretation of pollution Regulations in details
Safety check List
Oil Record Book
Cargo carriage
Fire Fighting
Inert Gas Systems
Ballast Water Management
Helicopter Operations
STS Operations
Tanker Moorings

USP:

1 Details of tank room –practical course and not only classroom lectures
2 Supported by Liquid Cargo Handling Simulator

Eligibility:

Persons joining as a Master, Chief Officers and senior second officers on oil tankers

58. Advanced FRAMO (FRAMO - Adv.)

Duration: Four days

Conducted at: Mumbai

Objective:

This course has been designed by FRAMO and conducted by SIMS. This course is meant for all officers on board ships fitted with FRAMO cargo pumping system. The course covers the hydraulics, controls, cargo pumping theory with associated practical.

Trouble shooting, testing alarms & interlocks are included. The cargo tank with working FRAMO hydraulic system installed at SIMS is used to demonstrate Loading, Discharging, Stripping, Emergency operation with Portable pump and Cofferdam purging operations.

Subject Areas:

Introduction
General Arrangement and Hydraulic Circuit
Hydraulic Oil and Filtration
Control Valves
FRAMO Cargo Pump
Operation of Cargo Pumps

USP:

1 Only one of its kinds with actual stainless steel tank and FRAMO system in our Tank room
2 Fully fitted- out cargo tank replica with FRAMO pump- FIRST IN THE WORLD

Eligibility:

All Shipboard senior rank engineers

59. Cargo Operation (Oil) Senior (COS)

Duration: Three days

Conducted at: Mumbai

Objective:

The course will provide formalized training to consolidate and enhance experience gained from service onboard an oil tanker. The trainees who successfully complete the course will make a safer and more effective contribution to the operation and control of the cargo and ballast installation of an oil tanker which will improve ship safety and provide greater protection of the environment. In particular there will be:

• Familiarization with the equipment, instrumentation and controls used for cargo and ballast handling on oil tankers.

• A greater awareness of the need for proper pre-planning, use of checklists and time scales involved in various cargo related operations.

• An enhanced awareness to apply proper and safe procedures at all times when carrying out the various operations on board the oil tanker.

• An acquisition of experience in identifying operational problems and solving them.

• An improvement in ability to make decisions which promote safety and protect the environment.

Subject Areas:

Introduction
Safety moment & Introduction
Familiarization
Cargo planning
Inert Gas & Pumping theory
MARPOL
FRAMO Pump

USP:

1 Concept building
2 Practical sessions
3 Simulator Training

Eligibility:

The course has been specifically designed as per our customers (BP shipping) requirement. Certified deck and engineer officers required to join bp shipping managed tankers can attend the course

60. Breathing Apparatus Maintenance

Duration: One day

Conducted at: Mumbai

Objective:

The trainees who successfully complete this course will have gained theoretical and practical knowledge regarding BA set and BA compressor.

Subject Areas:

This is a lecture and practical-oriented course with more emphasis on practical aspects. The course covers important aspects of personnel safety, operating and maintenance instructions of BA sets and BA compressor. In particular, trainees are taught and given practical demonstration on the following topics:

- Compressed air breathing apparatus system description
- Safety instructions
- Method of donning
- Checking the apparatus for correct functioning
- Maintenance of BA set
- BA compressor description
- Operation of compressor for filling BA bottle
- Maintenance of BA compressor
- Safety instruction for operation of BA compressor

USP:

Hands on training provided on a fully functional BA set and BA compressor.

Eligibility:

Third and Fourth Engineers and all Junior Officers

61. International Safety Management Awareness (ISM)

Duration: Two days

Conducted at: Mumbai

Objective:
This course is run for officers to familiarize with the international safety management system.

Subject Areas:
History of maritime legislation
Overview of ISM requirements
An overview of the Companies ISM system
Display and discussions of the ISM System –in detail (officers course only)
Group exercises on the use of the various procedures, work instructions; check lists and permits to work.

USP:
1 Tailor made for Company's requirement
2 Candidates fully trained on safety management system prior joining ship

Eligibility:
Any senior officer

62. Port State Control - Bulk Carrier (PSC-BC)

Duration: One day

Conducted at: Mumbai

Objective:

This course is designed to teach the candidates the purpose of Port State Control (PSC) Inspections and provide guidance on the preparation and conduct of such inspections.

Officers on completion of this course shall achieve a clear understanding of the Port State control Inspections: prepare for the same, effectively have them carried out on board and correctly follow up on the inspection reports especially any reported deficiencies.

Subject Areas:

Introduction to PSC Circulars, preparing the vessel for PSC inspection
USCG and ISPS requirements
PSC Inspection Checklist
IMO and INTERCARGO guidelines for Bulk carriers
BIMCO guidelines for USCG inspection
IOPP certificate and MARPOL requirement,
Procedure for filling engine room oil record book as per MARPOL Annex – I,
Common deficiencies found on board Bulk carrier on PSC inspection.

USP:

Experienced faculty members conduct this course

Eligibility:

All officers

63. Teamwork (TEAMWORK)

Duration
1 day

Course Objectives
This course aims to help teams work more effectively and efficiently.

Course Outline
The following would be covered:

Introspect personal behavior – insight into those actions that enhance / obstruct team work

Insights to various aspects of team work – characteristics of effective teams, obstacles and tools to overcome friction in teams

Eligibility
All ship board personnel

64. Computer Based Training (SEAGULL)

Duration: Own pace

Objectives

SIMS has tied up with SEAGULL AS, Norway to provide Computer Based Training (CBT) in various subjects ranging from navigation, marine engineering, seamanship, safety and pollution prevention, to ISM code, ship security, PSC inspections etc. It provides standardization of training when training occurs in several work locations simultaneously.

The benefits of CBT include:

- The computer actively engages the trainee in the training process, providing increased trainee satisfaction.
- Trainees work at their own pace
- CBT can sequence training to match the trainee's needs. The computer can always match the trainee's schedule. CBT can reach trainees outside the traditional classroom, providing instruction on the job.
- CBT provides immediate feedback to trainees on their progress.
- It provides management systems for tracking trainees' progress and location.
- It provides on-line testing to match a trainee with needed training. It provides consistency of training in terms of quality and information presented.

Eligibility

All

65. Maritime Law Course (M-LAW)

Duration: Three days

Conducted at: Mumbai

Objective:

Maritime law concerns navigation and overseas commerce. Because ships sail from nation to nation overseas that no nation owns, nations need to seek agreement over customs related regulation to shipping.

Subject Areas:

Admiralty Law & Jurisdiction procedures
Safety regulations in navigation, liabilities and limitation of liability
Assistance at sea and in ports
Procedure and evidence in arbitration
Contracts of affreightment and voyage & time charter parties
The bill of lading contract and functions
Legal cultures and criminal justice policy
Elements of insurance & the insurance contract and its terms
Claims process
Law of the Sea (UNCLOS) and its impact
COGSA 1992
Indemnity, subrogation and contribution
Piracy &Criminalization of the seafarers
Case studies on various aspects of local regulations

USP:

Experienced faculty members conduct this course

Eligibility:

Maritime Lawyers
P&I Clubs' Managers and Directors
Insurance Brokers, Underwriters, Charterers, Claims managers
Senior Marine Officers, Ship-owners& Shipbrokers
Salvage Project Managers and Directors