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**COURSE CATALOG 2023
DEEPSEA AND INLAND SHIPPING**

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NAVIGATION

Course # Course Names

- MSTS-201 Introduction to Bridge Equipment
- MSTS-202 Navigational Aids And Safe Navigation
- MSTS-203 Foundations of Bridge Watchkeeping
- MSTS-204 Procedures for Effective Bridgewidthkeeping
- MSTS-205 Guidelines on Ice Characteristics for the the Navigator
- MSTS-206 Vessel Performance in Ice
- MSTS-207 Crew Preparation for Ice Navigation
- MSTS-209 Search and Rescue
- MSTS-210 Art of Ship Handling
- MSTS-212 Ship Handling in Adverse conditions
- MSTS-213 IMO Standard Marine Communication
- MSTS-218 Collision Regulations



ENGINEERING AND CONTROL SYSTEMS FOR DECK OFFICERS

Course # Course Names

- MSTS-251 Basic Principles of Marine Propulsion Engines
- MSTS-252 Propulsion Engines
- MSTS-253 Propellers and Steering
- MSTS-254 Marine Steam Boilers
- MSTS-255 Shipboard Auxiliary Systems
- MSTS-256 Generators, Alternators, Electrical distribution
- MSTS-257 Refrigeration, Air Conditioning and Ventilation
- MSTS-258 Marine Auxiliary Machinery
- MSTS-259 Hydraulic Systems and some applications onboard
- MSTS-260 Instruments and Control Systems



MANAGEMENT FUNCTIONS - COURSES FOR OFFICE-BASED MANAGERS AND SUPERINTENDENTS

Course # Course Names

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|--|---|
| MSTS-801 Role of the Ship Manager | MSTS-841 LNGF Containment and Ancillaries |
| MSTS-802 IMO, WHO and ILO | MSTS-842 LNGF Health, Safety and Compliance |
| MSTS-803 International Conventions | MSTS-843 LNGF Main Engine, Equipment and Control Systems |
| MSTS-804 International Codes | MSTS-845 USCG Port State Control |
| MSTS-806 Budgets and Cost Control for Ships | MSTS-846 MARPOL-Annexes |
| MSTS-807 Purchasing by Ships | MSTS-847 Automation and Control Engineering |
| MSTS-808 Quality Assurance Onboard | MSTS-850 Audits and SIRE for Oil Tankers |
| MSTS-809 Health, Safety, Security and Environment Management | MSTS-851 Internal Audits Onboard Your Ships |
| MSTS-810 Project Management | MSTS-852 Maritime Accidents and Incidents Investigation |
| MSTS-812 Information Technology for Seafarers | MSTS-853 Cyber Security Primer |
| MSTS-814 Drydocking and Repairs | MSTS-855 Audits and SIRE for Chemical Tankers |
| MSTS-815 Port State Control | MSTS-856 Audits and SIRE for Gas carriers |
| MSTS-816 Purchase, Sale, Takeover And Delivery of Ships | MSTS-857 Ballast Water Treatment and Challenges |
| MSTS-818 Inspection and Surveys | MSTS-858 Layers of Logistics and Value-added Services |
| MSTS-819 Certification And Survey of Ships | MSTS-859 Logistics of Breakbulk, Container and Petroleum Cargoes |
| MSTS-821 Emergency Response by Ships | MSTS-860 Cargo Documentation, Security and Information Management |
| MSTS-822 Cargo Carriage | |
| MSTS-823 Personnel Management for Ships | |
| MSTS-824 Marine Insurance and Law | |
| MSTS-825 International Trade by Multimodal Transportation and Chartering | |
| MSTS-826 Control Of Ship Operations | |
| MSTS-827 Nautical Equipment | |
| MSTS-828 Engineering Control System Management | |
| MSTS-829 Engineering Materials | |
| MSTS-830 Hull and the Ship Structure | |
| MSTS-831 Ship Machinery | |
| MSTS-832 Technical Equipment | |
| MSTS-833 Machinery Maintenance | |
| MSTS-834 Prevention of Corrosion and Fouling on ships | |
| MSTS-835 Maritime Logistics and Supply Chain Management | |
| MSTS-836 Breakbulk Shipping | |
| MSTS-837 Types of coatings and their applications for painting on ships | |
| MSTS-838 Climate Change Policies and Efficient Ship Operations | |
| MSTS-839 LNGF Basics | |
| MSTS-840 LNGF Bunkering | |



ELECTRICAL, ELECTRONICS & CONTROL ENGINEERING

Course # Course Names

MSTS-702	Electrical Power Distribution on Ships
MSTS-703	Alternators
MSTS-705	Synchronizing and Load Sharing by Generators
MSTS-706	Circuit Breakers
MSTS-707	A.C.Motors and Starters
MSTS-709	High Voltage Fundamentals
MSTS-710	Electric Propulsion Fundamentals
MSTS-711	Ship's Electrical System Maintenance
MSTS-712	Electrolysis and Electrolytic Cells
MSTS-713	Transformers
MSTS-714	Protection of Transformers, Generators and Motors
MSTS-715	Electrical Protection Principles
MSTS-722	Motors - Starting Methods, Starters and Speed Control



CARGO HANDLING

Course # Course Names

MSTS-302	Cargo Conventions and Documentation
MSTS-303	Container Cargoes
MSTS-304	Dry bulk Cargoes
MSTS-305	General Cargoes
MSTS-306	Heavy lifts-Project Cargoes
MSTS-307	International and National Regulations
MSTS-309	Refrigerated Cargoes
MSTS-310	Roll On/Roll off and Lash Cargoes
MSTS-311	Timber Cargoes
MSTS-314	Physics and Chemistry of Chemical Tankers
MSTS-315	Rules and Regulations of Chemical Tankers
MSTS-316	Arrangements in a Chemical Tanker
MSTS-317	Chemical Tanker Cargo Handling Systems
MSTS-318	Chemical Tanker Cargo Operations
MSTS-319	Tank Cleaning on Chemical Tankers
MSTS-320	Oil Tanker Arrangements
MSTS-321	Physics and Chemistry of Oil Cargoes
MSTS-322	Rules and Regulations for Oil Tankers- United States
MSTS-323	Rules and Regulations for Oil Tankers- International
MSTS-324	Oil Tanker Cargo Handling Systems
MSTS-325	Oil Tanker Cargo Operations
MSTS-326	Safe Work Practices on Oil Tankers
MSTS-330	Physics and Chemistry of Liquefied Gas Tankers
MSTS-331	Health, Safety and Regulations for Gas Tankers
MSTS-332	Arrangements in a Gas Tanker
MSTS-333	Gas Tanker Cargo Handling Systems
MSTS-334	Gas Tanker Cargo Operations
MSTS-335	Gas Tanker cargo calculation and custody transfer
MSTS-336	Ship/shore Interfacing and Emergency Shutdown on Gas Tankers
MSTS-337	LPG Tanker Cargo Operations



SAFETY OF OPERATION AND CARE FOR PERSONS

Course # Course Names

MSTS-401	Hazards and Hazardous Areas Onboard	MSTS-427	Marine Pollution-Prevention and Response
MSTS-402	Personal Safety and Well-Being Onboard	MSTS-428	Port State Control (PSC) Inspections
MSTS-403	Safety Culture	MSTS-430	Maritime Cyber Security
MSTS-404	Personal Survival - Rescue and Abandoning Ship	MSTS-432	Behavior Based Approach to Safety and Risk Management
MSTS-405	Watertight and Weathertight Doors	MSTS-434	Introduction to Ship Stability
MSTS-406	Safe Working Practices	MSTS-435	Damage Stability
MSTS-407	Personal Lifesaving Appliances	MSTS-436	Risk Assessment and Management
MSTS-409	Types of Fire and Firefighting Appliances	MSTS-438	Incident Investigation Onboard Ship
MSTS-410	Accident Prevention Techniques	MSTS-440	Drills and Exercises - SOLAS, MARPOL, ISPS
MSTS-411	Ballast Water Management	MSTS-444	Emergency Preparedness Drills and Exercises - Machinery, Bridge and Others
MSTS-412	Rescue Boat and Fast Rescue Boat Operations	MSTS-446	Understanding MARPOL
MSTS-413	Liferafts Operations	MSTS-449	Bilging
MSTS-415	Understanding Lifeboats	MSTS-450	Ships Electrical Safety
MSTS-419	Prevention of Fire	MSTS-451	NPDES-VGP-VIDA
MSTS-420	Fixed Fire Extinguishing Systems		
MSTS-421	Ship Firefighting Organization		
MSTS-423	Fighting Fires on Different Type of Ships and Accommodation		
MSTS-424	ISM Code		
MSTS-425	Safety Management System		



SOFT SKILLS COURSES

Course # Course Names

MSTS-501	Fatigue and Stress at Sea
MSTS-502	Leadership and Teamwork
MSTS-503	Personal Wellbeing Onboard
MSTS-504	Human Relations Onboard
MSTS-505	Conflict Management at Sea
MSTS-506	Cultural Diversity on Ships
MSTS-509	Shipboard Personnel Management and Training
MSTS-510	Task and Workload Management Onboard
MSTS-511	Decision Making Techniques
MSTS-512	Bullying and Harassment
MSTS-513	Effective Communication Onboard



MARINE ENGINEERING

Course # Course Names

MSTS-601	Marine Diesel Engine - Principles, Loads and Stresses	MSTS-638	Turbocharger
MSTS-602	Corrosion Prevention and Coating Technology	MSTS-639	Main Engine Lubrication
MSTS-603	Construction of Marine Diesel Engines	MSTS-640	Inspections and Overhauling of Diesel Engines
MSTS-604	Efficient Operation of Marine Diesel Engines	MSTS-641	Principles of Control Engineering
MSTS-605	Detection of Common Faults and Repairs in the Engine Room	MSTS-642	Automation and Control of Shipboard Systems
MSTS-606	Fuels and Lubricants	MSTS-643	Fundamentals of Hydraulic Controls
MSTS-607	Bunkering and Transfer of Fuel Oil	MSTS-644	Final Control Elements
MSTS-608	Mechanical and Electronic Flow Meters	MSTS-645	Air Emission Regulations and Compliance Methods
MSTS-609	Hull Fouling and its Prevention	MSTS-647	Energy Efficiency and Management Onboard
MSTS-610	Fuel Pump Operation and Timing	MSTS-648	Maintaining a Safe Engineering Watch
MSTS-611	Scavenging and Supercharging	MSTS-649	Efficient Running of Shipboard Scrubbers
MSTS-612	Fuel Injectors	MSTS-650	Marine Elevators
MSTS-613	Waste Heat Recovery and Exhaust Gas Boilers	MSTS-651	Casualty Control of Shipboard Automation and Control System
MSTS-614	High Pressure Steam Boilers	MSTS-652	Control-Measuring Instruments-Flow, Gas Analyzers and Others
MSTS-615	Low Pressure Auxiliary Boilers	MSTS-653	Work Activities During Engine Room Watchkeeping
MSTS-616	Various Types of Pumps used onboard	MSTS-654	Engine Room Resource Management
MSTS-617	Shipboard Valves and Piping Systems	MSTS-655	Hydraulic Controls - Shipboard Systems
MSTS-618	Plate and Tubular Heat Exchangers	MSTS-656	Hydraulic Controls and its Applications Onboard
MSTS-619	Pumps and Pumping Systems	MSTS-658	Drydocking
MSTS-620	Compressed Air System		
MSTS-621	Fresh and Potable Water System		
MSTS-622	Shipboard Refrigeration and Air Conditioning System		
MSTS-623	Measuring Instruments -Temperature, Pressure and Level		
MSTS-624	Steering Gears and Regulations		
MSTS-625	Reefer and AC System - Control, Instrumentation, Safety and Maintenance		
MSTS-626	Shipboard Water(Potable, Cooling and Boiler) and Treatment		
MSTS-627	Propulsion and Transmission Shafting		
MSTS-628	Marine Machinery Condition Monitoring		
MSTS-629	Propellers, Rudders and Thrusters		
MSTS-630	Shipboard Ventilation System		
MSTS-632	Stern Tubes and Sealing Arrangements		
MSTS-633	Automation and Control Systems		
MSTS-634	Pollution Prevention Equipment Onboard		
MSTS-635	Main Engine Cooling - Methods and Systems		
MSTS-636	Sewage and Wastewater Treatment		
MSTS-637	Main Engine Bearings		