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COURSE CATALOG 2023

DEEPSEA AND INLAND SHIPPING





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 Bridgewatchkeeping 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

	Role of the Ship Manager IMO, WHO and ILO		LNGF Containment and Ancillaries
	International Conventions		LNGF Health, Safety and Compliance
	International Codes	MS15-843	LNGF Main Engine, Equipment and
	Budgets and Cost Control for Ships	MCTC 04F	Control Systems USCG Port State Control
	Purchasing by Ships		MARPOL-Annexes
	Quality Assurance Onboard		Automation and Control Engineering
	Health, Safety, Security and Environment		Audits and SIRE for Oil Tankers
M313-009	Management		Internal Audits Onboard Your Ships
MSTS-810	Project Management		Maritime Accidents and Incidents
	Information Technology for Seafarers	141313-032	Investigation
	Drydocking and Repairs	MCTC-853	Cyber Security Primer
	Port State Control		Audits and SIRE for Chemical Tankers
	Purchase, Sale, Takeover And Delivery of Ships		Audits and SIRE for Gas carriers
	Inspection and Surveys		Ballast Water Treatment and Challenges
	Certification And Survey of Ships		Layers of Logistics and Value-added
	Emergency Response by Ships	11010 000	Services
	Cargo Carriage	MSTS-859	Logistics of Breakbulk, Container and
	Personnel Management for Ships	1.010 005	Petroleum Cargoes
	Marine Insurance and Law	MSTS-860	Cargo Documentation, Security and
	International Trade by Multimodal Transportation		Information Management
	and Chartering		
MSTS-826	Control Of Ship Operations		
	Nautical Equipment		
	Engineering Control System Management		
	Engineering Materials		
	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		
	LNGF Basics		
MSTS-840	LNGF Bunkering		

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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

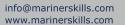
MSTS-333 Gas Tanker Cargo Handling Systems

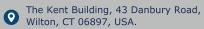
MSTS-334 Gas Tanker Cargo Operations

MSTS-335 Gas Tanker cargo calculation and custody transfer

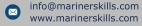
MSTS-336 Ship/shore Interfacing and Emergency Shutdown on Gas Tankers

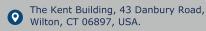
MSTS-337 LPG Tanker Cargo Operations















SAFETY OF OPERATION AND CARE FOR PERSONS

Course # Course Names

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



SOFT SKILLS COURSES

Course # Course Names

MSTS-425 Safety Management System

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

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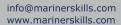


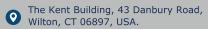


MARINE ENGINEERING

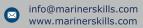
Course #	Course Names		
MSTS-601	Marine Diesel Engine - Principles, Loads and	MSTS-638	Turbocharger
	Stresses	MSTS-639	Main Engine Lubrication
MSTS-602	Corrosion Prevention and Coating Technology	MSTS-640	Inspections and Overhauling of Diesel
MSTS-603	Construction of Marine Diesel Engines		Engines
MSTS-604	Efficient Operation of Marine Diesel Engines	MSTS-641	Principles of Control Engineering
MSTS-605	Detection of Common Faults and Repairs in the	MSTS-642	Automation and Control of Shipboard
	Engineroom		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
MSTS-609	Hull Fouling and its Prevention		Methods
MSTS-610	Fuel Pump Operation and Timing	MSTS-647	Energy Efficiency and Management
MSTS-611	Scavenging and Supercharging		Onboard
MSTS-612	Fuel Injectors	MSTS-648	Maintaining a Safe Engineering Watch
MSTS-613	Waste Heat Recovery and Exhaust Gas Boilers	MSTS-649	Efficient Running of Shipboard Scrubbers
MSTS-614	High Pressure Steam Boilers	MSTS-650	Marine Elevators
MSTS-615	Low Pressure Auxiliary Boilers	MSTS-651	
MSTS-616	Various Types of Pumps used onboard		and Control System
MSTS-617	Shipboard Valves and Piping Systems	MSTS-652	Control-Measuring Instruments-Flow, Gas
MSTS-618	Plate and Tubular Heat Exchangers		Analyzers and Others
MSTS-619	Pumps and Pumping Systems	MSTS-653	Work Activities During Engine Room
MSTS-620			Watchkeeping
	Fresh and Potable Water System	MSTS-654	3
MSTS-622	Shipboard Refrigeration and Air Conditioning	MSTS-655	· · · · · · · · · · · · · · · · · · ·
	System	MSTS-656	Hydraulic Controls and its Applications
MSTS-623	Measuring Instruments -Temperature, Pressure		Onboard
	and Level	MSTS-658	Drydocking
	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