

N7 Engineering Academy Syllabus for Introduction to Military Sealift Command

Course Content

This course provides an in-depth introduction to Military Sealift Command (MSC) and its commercial-like ship operation and maintenance philosophy, policies, and business practices. The subject matter is considered basic in nature. This course consists of the following modules:

- MSC Overview
- MSC Fleet
- MSC Shoreside Organization
- MSC Afloat Organization
- MSC Engineering Directorate
- MSC Technical Authority
- MSC Portal
- MSC Virtual Technical Library
- MSC Ship Operation and Maintenance Philosophy
- MSC Life Cycle Management
- MSC RITEMOV Overview
- MSC Safety Management System
- MSC Quality Management System
- MSC TRANSALT Management
- MSC Commodities Contracts
- Underway Replenishment Overview

Target Audience

The target audience for this course is all new-hire N7 personnel. This course is also appropriate for experienced N7 personnel who want to refresh their proficiency in certain subject matter areas.

Pre-Requisites

There are no prerequisites for this course.

Administration

The class size is limited to 25 students, and enrollment is on a first come, first served basis. You can self-register for this course online at <http://mscn7training.com>. Successful completion of this course requires 100% attendance.

Schedule

This course is conducted over a period of three consecutive days. Classes begin at 8:00 AM and end at 5:00 PM each day. The schedule for the course modules is as follows:

Date	Time	Training Module
Day One	0800-1000	MSC Overview
	1000-1200	MSC Fleet
	1300-1400	MSC Shoreside Organization
	1400-1500	MSC Afloat Organization
	1500-1700	MSC Engineering Directorate
Day Two	0800-0900	MSC Technical Authority
	0900-0930	MSC Portal
	0930-1000	MSC Virtual Technical Library
	1000-1400	MSC Ship Operation and Maintenance Philosophy
	1400-1600	MSC Life Cycle Management
	1600-1700	MSC RITEMOV Overview
Day Three	0800-1000	MSC Safety Management System
	1000-1200	MSC Quality Management System
	1300-1400	MSC TRANSALT Management
	1400-1600	MSC Commodities Contracts
	1600-1700	Underway Replenishment Overview

Module Descriptions:

MSC Overview – The topics covered in this module include: MSC’s primary roles and responsibilities, MSC’s reporting chains of command, MSC’s mission and vision, MSC’s pillars, MSC’s strategic themes, MSC’s guiding principles, MSC fleet organization, MSC fleet acquisitions, MSC customers and stakeholders, funding for MSC operations, and challenges in MSC’s external and internal environments.

MSC Fleet – The topics covered in this module include: MSC’s Combat Logistics Force ships, MSC’s Fleet Support and Special Missions ships, MSC’s Combatant Command Support ships, MARAD Ready Reserve Force ships, Voluntary Intermodal Sealift Agreement (VISA) ships, and Maritime Security Program (MSP) ships.

MSC Shoreside Organization – The topics covered in this module include: MSC’s leadership, MSC’s workforce, and MSC’s organizational structure (including Headquarters, Area Commands, Maintenance Hubs, MSC Offices, MSC Liaison Officers, MSC HQ Detachments, Maritime Prepositioning Ship Squadrons, and Naval Reserve Units).

MSC Afloat Organization – The topics covered in this module include: U.S. Merchant Mariners (civil service and commercial), military personnel afloat (active

duty and reserves), mission sponsor detachments, and MSC shipboard departments (Deck Department, Engine Department, Logistics and Stewards Department, Medical Department, and Communications Department).

MSC Engineering Directorate – The topics covered in this module include: Engineering Directorate (N7), Engineering Management Systems Division (N71), Technical Division (N72), Policy Management and Fleet Standards Division (N73), Fleet Recapitalization Support Division (N74), and Life Cycle Management Division (N75).

MSC Technical Authority – The topics covered in this module include: the nature of technical authority, SECNAV delegation of technical authority to MSC, distinctions between programmatic authority and technical authority, independent exercise of technical authority, N7 responsibility for exercising technical authority, documentation of MSC technical authority processes, technical authority for new construction ship acquisition programs, interaction between MSC Technical Authorities and other Navy Technical Authorities, role of N7 personnel in supporting exercise of technical authority, and the distinctions between programmatic authority decision-making and technical authority decision-making.

MSC Portal - The topics covered in this module include: accessing and navigating the MSC Portal.

MSC Virtual Technical Library - The topics covered in this module include: MSC Technical Library (holdings, services, requests, and submissions) and accessing the Virtual Technical Library.

MSC Ship Operation and Maintenance Philosophy – The topics covered in this module include: MSC's use of commercial ship design, operation, and maintenance standards, MSC's Safety Management System, MSC's Quality Management System, MSC's ship operating models, MSC's maintenance philosophy, MSC's maintenance model, MSC's predictive maintenance tools, MSC's web-based maintenance planning and management tools, visibility of MSC's operating and maintenance costs, and MSC's alignment of life cycle maintenance and fiscal decision-making responsibilities and authorities.

MSC Life Cycle Management – The topics covered in this module include: MSC's life cycle management policies and business practices.

MSC RITEMOV Overview – The topics covered in this module include: origin of MSC's RITEMOV initiative, purpose of RITEMOV, and MSC's RITEMOV policies and business practices.

MSC Safety Management System – The topics covered in this module include: MSC's safety and environmental protection policies; U.S. and international safety, occupational health, and pollution prevention standards applicable to MSC ships;

International Management Code for the Safe Operation of Ships and for Pollution; and MSC's Safety Management System.

MSC Quality Management System – The topics covered in this module include: what is a quality management system, MSC's quality policy, MSC's QMS portal, MSC's QMS organizational structure, and MSC's core QMS procedures.

MSC TRANSALT Management – The topics covered in this module include: definition of an alteration, MSC policy regarding alterations, MSC Transportation Alterations (TRANSALTs), TRANSALT management roles and responsibilities, and MSC's TRANSALT process.

MSC Commodities Contracts – The topics covered in this module include: the objectives of MSC's commodities contracts, available contracts, products and services available via each contract, and ordering products and services.

Underway Replenishment Overview (*under development*) – The topics covered in the module include: alongside connected replenishment (liquid, dry cargo, and personnel), vertical replenishment, and astern refueling.

Date	Version	Description	Author
4/8/19	0.0	Initial draft	Gary Fields
5/5/19	0.1	Revised course name	Gary Fields
6/23/19	1.0	Revised module durations to reflect three-day vice four-day schedule per MSC (Al Ronald)	Gary Fields
8/14/19	1.1	Revised course name, curriculum, module durations, and target audience per discussion with Al Ronald (MSC N7X Competency Manager)	Gary Fields