

**STANDARD TENSIONED REPLENISHMENT ALONGSIDE METHOD (STREAM)  
CARGO/FUELS (COMBINATION COURSE; CIN/CDP: G-060-0612/07RD)**

Course length: 80 hours

Class size: 18 – 24 students (18 minimum)

Refresher training is required every 24 months.

Course covers STREAM operations for transfer at sea of ordnance/cargo and fueling-at-sea (FAS) via connected replenishment (CONREP). This course is a combination of classroom lectures and hands-on training. Topics of discussion include safety gear and safety procedures, review of ordnance handling equipment (OHE), basic underway replenishment (UNREP) cargo handling procedures, Material handler equipment (MHE) operation, hazardous material, CONREP familiarization and pre-operational procedures, CONREP operations, personnel transfer and emergency procedures. Hands-on training is conducted at the land-based MSC UNREP Training Center (MUTC) STREAM facility. The site has both sending and receiving ship training platforms. The students, under close instructor's supervision, are required to conduct STREAM Cargo/FAS operations exercises, including night training, based on real life scenarios. A written test and a practical test are administered at the conclusion of the course and a passing grade is required for credit.

**ORDNANCE HANDLING EQUIPMENT (OHE) (CIN/CDP: G-4E-0612/07R3 - (In House))  
and (G-4E-0612/07R4 - (Exportable))**

Course length: 40 hours

Class size: 12 students maximum

Refresher training required every 24 months

Course is a combination of classroom lecture and hands-on training. Students are taught proper use of U.S. Coast Guard standard blocking and bracing methods. The proper use of OHE including slings, beams, non-powered hand--trucks and cargo hooks. During the hands-on training portion of the course, students work in a simulated cargo hold (see note), practicing loading and securing of ordnance training loads using chains, cargo nets and blocking and bracing. Students are also required to select and install the proper OHE on a variety of ordnance training loads. Safety is heavily emphasized during training. A written test and a practical test are administered at the conclusion of the course and a passing grade is required for credit.

Note: For exportable training every effort will be made to make arrangements for students to work in a cargo hold onboard a MSC vessel, if available.

**ORDNANCE HAZARD AWARENESS/AMMO 69 (OHA) (CIN: A-4E-3010)**

Course length: 24 hours

Class size: 24 students maximum

Course provides the general safety requirements for the conventional ordnance safety review (COSR). It provides students with a basic understanding of the hazards of ammunition and explosives and acquaints them with the explosive safety principles and practices outlined in NAVSEA OP 4, "Ammunition and Explosives Safety Afloat", and NAVSEA OP 5 -Volume 1,

“Ammunition and Explosives Safety Ashore”. The course will guide students through general characteristics of cargo ship explosive ordnance safety administration, management, physical security, and stowage and handling safety requirements. An explanation of the qualification/certification program is also discussed. The ultimate goal of the course is to prepare ammunition and weapons handlers to maintain the highest level of fleet readiness by preventing mishaps involving arms, ammunition, and explosives. This is an exportable course. A written test and a practical test are administered at the conclusion of the course and a passing grade is required for credit.

This course meets the requirements for basic naval explosives (BNE) and ordnance hazard awareness (OHA) requirements for MSC under OPNAVINST 8023.24 (series), and NAVSEA OP 5, Volume 1.

**MATERIAL HANDLING EQUIPMENT (MHE) (CIN/CDP: G-690-0068-07R1 - (In House)) or (G-690-0068/07R2-MTT - (Exportable))**

Course length: 40 hours

Class size: 10 students maximum

Refresher training required every 24 months.

Course is a combination of classroom lecture and hands-on training. Students are instructed in the proper method of safe handling of ordnance and general cargo with various types of ordnance MHE which include forklift trucks (diesel and electric) and pallet transporters. During the hands-on training portion of the course, each student is given the opportunity to operate diesel and electric forklift trucks and pallet transporters in various simulated situations such as ship's cargo holds, above deck areas, magazines, railcars, etc. A written test and a practical test are administered at the conclusion of the course and a passing grade for each portion is required for course credit.

**VERTICAL REPLENISHMENT (VERTREP) (CIN/CDP: G-063-0612/07R5 - (In House)) and (G-063-0612/07R6-MTT – (Exportable)).**

Course length: 16 hours

Class size: 24 students maximum

Course is a combination of classroom lecture and hands-on training. Topics covered include: advantages of VERTREP operations, duties and responsibilities of personnel involved, safety and emergency procedures, hazards of foreign object damage (FOD) and walk down procedures, VERTREP planning procedures, load staging and pick up procedures, drop load zone precautions, helicopter flight patterns, personnel transfer, cargo transfer, hoisting procedures and sound powered phone talker procedures. A written test is administered at the conclusion of the course and a passing grade is required for credit.

Note: For exportable training every effort will be made to make arrangements for students to work in a cargo hold onboard a MSC vessel, if available.

### **BASIC SEAMANSHIP**

Course length: 16 hours

Class size: 24 students maximum

Course is a combination of classroom lecture and hands-on training. Students are instructed in marlinespike seamanship and basic deck seamanship materials, methods and procedures. The subject covers areas such as regulations and safety, definitions, lines and types, deck fittings and wire ropes, whippings, splicing, knots, shackles, hand signals and safety equipment. Course can be exported aboard ship and other locations.

### **YARD-AND-STAY (CIN/CDP: G-060-2120-07R9 – (Exportable only))**

Course length: 40 hours

Class size: 4 students maximum

Refresher training required every 24 months

Course combines lecture and hands-on training. This course will give the students an understanding of the working mechanics of the yard and stay rig, the operating guidelines and safety procedures required to successfully perform as a winch operator and signalman. Students will be instructed in the proper procedures for skilled operation of winches, booms and related duties of winch operators and signalman. Safety of the boom/winch operations, especially while handling ordnance, is emphasized. Course must be exported aboard with yard and stay capability.

### **BANDING AND PALLETIZATION (CIN/CDP: G-063-0613/07R7 –(In House)) and (G-063-0613/07R8-MTT) - (Exportable))**

Course length: 16 hours

Class size: 10 students maximum

Course is a combination of classroom lecture and hands-on training. Cargo handling personnel are taught the knowledge and skills required to identify and construct military unit loads of ammunition, explosives and associated materials for shipping, handling, storage and UNREP. This course is taught in accordance with MIL-STD-1323 requirements.

### **UNDERWAY REPLENISHMENT FAMILIARIZATION COURSE**

Course length: 16 hours

Class size: 16 Students

Course was developed to provide an introduction to underway replenishment for civilian mariners. The students are introduced to the equipment, terminology, and procedures associated with UNREP with a heavy emphasis on safety.

**MODULAR CARGO DELIVERY SYSTEM (MCDS)/ UNDERWAY REPLENISHMENT (UNREP) OPERATIONS COURSE**

Course length: 80 hours

Class size: 24 students maximum

Course covers STREAM operations for transfer at sea of ammunition/cargo CONREP; some basic VERTREP procedures are also presented. This course is a combination of classroom lectures and hands-on training. Topics of discussion include safety gear and safety procedures, flight deck emergency procedures, review of VERTREP (OHE), basic UNREP cargo handling procedures, MHE operation, hazardous material, CONREP familiarization and pre-operational procedures, CONREP operations, personnel transfer and emergency procedures, MCDS indoctrination and operation. Hands-on training is conducted at the land-based MCDS training facility. The site has both an MCDS sending and receiving ship training platforms. The students, under close instructor's supervision, are required to conduct STREAM operations exercises that are based on real life scenarios.

**MODULAR FUEL DELIVERY STATION (MFDS)/FUELING-AT-SEA (FAS) OPERATIONS**

Course length: 64 hours

Class size: 18 students maximum

Course is a combination of classroom lecture and hands-on training. It provides an introduction to the theory, equipment and procedures involved in FAS operations. Topics include safety gear and safety procedures, pre-operational procedures and MFDS indoctrination and operation. Hands-on training is conducted at the land-based MFDS training facility. The site has both an MFDS sending station and a receiving ship training station. The students are required to conduct FAS operations exercises that are based on real life scenarios