U. S. Naval Academy

SURFACE CRUISE
JOB QUALIFICATION
REQUIREMENT
(JQR)

MIDSHIPMAN SURFACE SPECIALIST

NAME/RANK: _____

References.

a. Officer Professional Core Competencies (PCC) Manual, April 2019.

b. USNAINST 1530.1 (Series)

Name:_____ Rank:_____ Issue Date: _____

INTRODUCTION

MIDSHIPMAN CRUISE REQUIREMENTS

The primary objective of the summer training cruise is to expose midshipmen to operational naval forces and to observe the Sailors and Marines they will lead. Each midshipman assigned to a surface cruise shall use this JQR as a guide in support of achieving maximum exposure to the fleet.

The 2/C cruise onboard a surface ship provides midshipmen a snapshot of a "day in the life" of fleet personnel and junior officers. This opportunity allows midshipmen to experience the lives of the men and women they will eventually have the privilege to lead after commissioning, along with exposure to the wardroom. These cruises also reinforce the lessons of leadership and followership learned during their Plebe and Youngster years.

The 1/C warfare cruise is the capstone of USNA's maritime and leadership training. Midshipmen prepare for the privilege to lead Sailors and Marines by acting as division officers in training and interacting with a Wardroom and Chief's Mess. This cruise also helps midshipmen confirm their expectations about warfare community preferences.

The goal of this JQR is to enhance the cruise experience by focusing on task completion. The Training Staff at USNA has already or will soon expose midshipmen to the underlying fundamentals and theory of each task assigned in this JQR. Also, prior to accomplishing each task, trainers and trainees are expected to discuss applicable underlying fundamentals and theory. This program is designed to provide Midshipmen broad-based exposure to surface warfare in accordance with reference (a). Where Professional Core Competencies align with knowledge or skills assigned in this JQR, they are noted in parenthesis next to each line item.

JQR PROGRAM

This JQR program is a qualification system for midshipmen where certification of a minimum level of competency is required before qualifying to perform specific duties. A JQR is a compilation of the minimum knowledge and skills that an individual must demonstrate in order to qualify to stand watches or perform other specific routine duties necessary for the safety, security or proper operation of a ship, aircraft or support system. The objective of JQR is to standardize and facilitate these qualifications.

APPLICABILITY

This JQR is applicable to all USNA midshipmen assigned a Surface cruise when the assigned ship **does not** have their own developed JQR. **Completion of a locally developed JQR is an accepted replacement to be completed in lieu of this JQR**. Complete all line items applicable during cruise. The MIDN coordinator or Training Officer shall mark Not Applicable on any item not accomplished due to unavailability.

QUALIFIER

Warfare qualified E-4 and above personnel are designated as PQS qualifiers for this JQR.

Name:_____ Rank:_____ Issue Date: _____

EMERGENCY PROCEDURES

1. Demonstrate your abandon ship/lifeboat station. (VI, B) _____
2. Demonstrate your Man Overboard station and responsibilities. (VI, B) _____
3. Demonstrate your Actual Casualty station and responsibilities. (VI, B) _____
4. Understand your Security / Force Protection Alert procedures. (V, H) _____
5. Demonstrate your ability to EGRESS from: (VI, B) _____
   a. Your berthing
   b. Your work center
   c. Your watch station
6. Demonstrate your ability to don a SCBA and EEBD. (VI, C, 4) _____

OPERATIONS

1. Observe and/or discuss small boat operations and equipment from the Boat Deck. (VI, A) _____
2. Observe and/or discuss UNREP operations and equipment from UNREP Station (U/I). (VI, A) _____
3. Observe and/or discuss mooring lines / anchor operations and equipment from the Foc'sle (VI, A) _____
4. Learn 3 different knots with Deck LCPO (I, F) _____

WEAPONS

1. Discuss weapons condition of readiness during COND III vs COND I _____
2. Participate, Observe and/or Discuss small arms or CSW gun shoot _____
3. Observe and discuss platform's weapon systems _____
4. Observe weapon system FIREX (if applicable) _____
5. Tour and discuss weapons magazines / VLS _____
6. Tour and discuss ASW suite _____

AMPHIBIOUS OPERATIONS

Name:_____ Rank:_____ Issue Date: _____

1. Observe Wet Well operations from Well Deck Control (VI, A) _____
2. Observe Wet Well operations from Debark Control (VI, A) _____
3. Observe Ballast operations from Ballast Control (VI, C) _____
4. Observe Cargo Handling operations (VI, A) _____
5. Observe and discuss vehicle stowage safety precautions (VI, A) _____

ENGINEERING

1. Tour and discuss major equipment within Engineering Rooms
2. Discuss responsibilities of EDO and EOOW _____
3. Shadow a Repair Locker Leader during Cond. II DC or General _____
   Quarters (GQ). (VI, C)
4. Observe a Condition II DC or GQ drill from _____

Central Control Station (CCS) / Damage Control Central (DCC). (VI, C)

5. Participate in the setting of Material Condition Z or Mod Z. (VI, C, 3) _____
6. Observe Main Engine Light Off with CHENG (V, B) _____

BRIDGE WATCHSTANDING

1. Stand at least ONE Bridge Watch Station (U/I) while underway _____

(VI, F, 3)

2. Discuss or demonstrate Ship maneuvers during a Man Overboard _____

Drill. (VI, F)

3. Determine a contact's CPA by MOBOARD. (VI, D, 18)

   _____

4. Prepare a Contact Report from the OOD to the Command Officer. _____
5. Observe and become familiar with OOD/JOOD/CONN responsibilities during: (I, E)
   a. Condition III normal steaming _____
   b. Sea and Anchor detail _____
   c. Anchoring evolution _____
   d. Underway replenishment (UNREP) _____

Name:_____ **Rank:**_____ **Issue Date:** _____

e. Vertical replenishment (VERTREP) _____

f. Flight quarters _____

6. Observe Flight Quarters from: (VI, E)

a. Pilothouse _____

b. HCO tower _____

COMBAT INFORMATION CENTER (CIC) WATCHSTANDING

1. Discuss the duties and responsibilities of the following supervisory watch stations in CIC: (I, E; II, D; V, D)

a. Tactical Action Officer (TAO) _____

b. CIC Watch Officer (CICWO) _____

c. Anti-Air Warfare Coordinator (AAWC) _____

d. Surface Warfare Coordinator (SUWC) _____

e. Anti-Submarine Warfare Coordinator (ASWC) _____

f. Gunnery Liaison Officer (GLO) _____

g. Shipping Officer _____

2. Discuss the duties and responsibilities of the following watch stations in CIC: (II, D; V, D)

a. Surface Warfare Supervisor (SWS) _____

b. Dual Display Station (DDS) Operator _____

c. Air Intercept Controller (AIC) _____

d. Anti-Submarine Tactical Air Controller (ASTAC) _____

e. Electronic Warfare (EW) Supervisor/Operator _____

f. Tactical Information Coordinator (TIC) _____

g. Identification Supervisor (IDS) _____

h. Radar System Controller (RSC) _____

i. Optical Sighting System (OSS) _____

j. Underwater Battery (UB)/Undersea Control Functional Segment (UCFS) _____

k. Database Manager (DBM)/Global Command and Control System (GCCS) _____

Name:_____Rank:_____ Issue Date: _____

3. Become familiar with the primary sensors: (V, A)
   a. AAW Radar _____ _____
   b. ASUW Radar _____ _____
   c. Navigation Radar _____ _____
   d. Hull mounted / towed Sonar _____ _____
   e. Electronic Countermeasures (SLQ 32) v _____ _____
   f. IFF _____ _____
4. Observe how CIC collects, processes, displays, evaluates, and disseminates the information received from the ship's sensors (V, A) _____
5. Track a surface contact by MOBOARD (VI, D, 18) _____
6. Observe CIC watch stations during a training scenario (V, D) _____
7. Observe the ASW Evaluator in an ASW scenario (V, D) _____
8. Take a tour of Sonar Control (V, D) _____
9. Discuss the roles of or Stand CIC (U/I) during Condition III (I, E) _____

IN PORT DUTY

1. Observe the general duties and responsibilities of each of the following in port watchstanders: (II, B) _____
   a. Command Duty Officer (CDO)
   b. Section Leader
   c. Officer of the Deck (OOD)
   d. Petty Officer of the Watch (POOW)
   e. Engineering Duty Officer (EDO)
   f. Duty Master-at-Arms (DMAA)
   g. Antiterrorism Tactical Watch Officer (ATTWO)
2. Participate in morning or evening colors. (I, F, 4) _____

ADMINISTRATION

1. Participate daily in morning Quarters with Running Mate (II, D) _____
2. Attend Department Head/Division Officer Meetings (II, D) _____

Name:_____ Rank:_____ Issue Date: _____

3. Shadow a Division Officer PMS spot check (V, B, 7) _____
4. Accompany the XO during a messing and berthing inspection (II, D) _____
5. Conduct a Zone Inspection of your division's spaces (II, D) _____
6. Review Division Officer Binder (II, E) _____
7. Conduct a formal/informal Uniform Inspection (I, B) _____

MISCELLANEOUS

1. Conduct stores on load with DISBO (II, C, 2) _____
2. Work the mess line with FSA's (II, C, 2) _____

SHIPBOARD TERMINOLOGY AND NOMENCLATURE

Terminology	Definition
Abaft	In the direction of the ship's stern (behind)
Aft	Behind or rear position or ship.
Forward	In the direction of the ship's front (ahead)
Abeam	In the direction to either side of the ship (port or starboard)
Port	Left side of the ship when facing Forward
Starboard	Right side of the ship when facing Aft
Midships	Middle section of the ship
Bulkhead	The walls of the ship
Muster	Roll call or assembly
Passageway (P-way)	Hallway
Head	Bathroom (toilet)
Ladderwell	Stairs or ladder
Overhead	Ceiling or areas open around the ceiling
1MC	Ship's intercom system
Flight Quarters	When the ship is landing / launching helicopters.
Bearing	The degree (angle) an object is from the observer or ship.
Range	Nautical miles or yards
CPA	Closest point of approach
Bearing Drift	The direction an object is moving relative to our movement

Name:_____ **Rank:**_____ **Issue Date:** _____

SWO-N CRUISE SHALL COMPLETE THE ADDITIONAL FOLLOWING ITEMS:

Note: If items are unable to be completed due to the ship's operations, qualification items may be discussed or walked through.

CARRIER OPS

1. Observe coordination and control of aircraft during flight ops (V, D) _____
2. Observe aircraft takeoff from Vultures Row (VI, B) _____
3. Observe aircraft landing from LSO Shack (VI, B) _____
4. Participate in a FOD Walkdown (VI, B) _____
5. Discuss the roles of flight deck crew (II, D, 6) _____
6. Observe DESRON Ops from Zulu (if embarked) (III, B, 5) _____

NUCLEAR POWER (V, B)

1. Space Tours
   a. Tour the RAR _____
   b. Tour the MMR _____
   c. Tour EOS _____
   d. Tour Nucleonics _____
   e. Tour Central _____
2. Propulsion Plant Watch Officer/Watch Supervisor
   a. Discuss the responsibilities of the following watch standers: _____
      i. Engineering Officer of the Watch
      ii. Propulsion Plant Watch Officer
      iii. Propulsion Plant Watch Supervisor
   b. Observe a reactor startup _____
   c. Observe a reactor shutdown _____
   d. Observe a drill set from EOS _____
   e. Observe reactor scram and FRSU _____
   f. Observe maneuvering transients from EOS _____
   g. Observe flight ops from EOS _____

Name:_____ **Rank:**_____ **Issue Date:** _____

h. Observe admin and issue of a tagout _____

i. Discuss the valve status board and control of plant evolutions _____

3. Reactor Mechanical

a. Discuss the responsibilities of the following watch standers: _____

i. Chief Reactor Watch

ii. Reactor Auxiliaries Watch

iii. Feed Control Watch

iv. CG Watch

v. Charging Station Watch

vi. Feed Pump Watch

b. Observe a charge to the primary _____

c. Observe a discharge from the primary _____

d. Observe startup or shutdown of a TG _____

e. Observe startup of a main feed pump _____

f. Observe a RM Maintenance Item _____

4. Reactor Electrical

a. Discuss the responsibilities of the following watch standers: _____

i. Load Dispatcher

ii. Switchgear Operator

iii. Log Recorder

b. Observe an electric plant shift from switchgear _____

c. Discuss emergency power sources available during casualties _____

d. Observe a RE Maintenance Item _____

5. Reactor Controls

a. Discuss the responsibilities of the following watch standers: _____

i. Reactor Operator

ii. Throttleman

iii. Instrument Watch

iv. Reactor Technician

Name:_____ **Rank:**_____ **Issue Date:** _____

b. Discuss the effects of the following on P_{RX} and T_{AVE}: _____

i. Rod motion

ii. Opening/Shutting Throttles

c. Discuss the basics of reactor protection and control _____

d. Observe a RC Maintenance Item _____

6. Reactor Propulsion

a. Discuss the responsibilities of the following watch standers: _____

i. Chief Machinery Operator

ii. Auxiliary Operator

iii. MMRUL

iv. MMRLL

v. TG Watch

b. Observe an RP Maintenance Item _____

c. Observe the startup and shut down of a distilling unit _____

d. Accompany the Shaft Alley Patrol on their Shaft Alley tours for 2 hours. _____

7. Reactor Laboratories

a. Discuss the responsibilities of an ELT _____

b. Don/Doff Anti-Cs and discuss methods to minimize exposure and spread of contamination. _____

c. Observe a primary sample and analysis _____

d. Observe the addition of chemicals to the primary or secondary _____

e. Observe a S/G Blowdown _____

f. Observe a contamination survey and discuss types of radiacs _____

g. Observe a radiation survey and discuss types of radiacs _____

Name:_____**Rank:**_____ **Issue Date:** _____

General Shipboard Safety

1. Caution. Although the ship is an interesting and exciting place, it can be dangerous. It is an industrial workspace after all. We ask that you follow the following precautions in order to prevent injury and help you to learn during your time here.

2. General Rules.

a. Whenever practicable, carry a load in a manner which allows one hand free. Always move up and down the ladder well with at least one hand on the railing, maintain three points of contact.

b. Do not place objects in the overhead. Ensure all gear is secured for sea, i.e. will not move freely once the ship is underway.

c. NEVER straddle or step over lines, wires or chains under ANY tension.

d. Wear hearing and eye protection in all designated areas. Your Running Mate will ensure you know when to don PPE.

e. Be aware of all markings on the deck and follow all posted directions.

f. Do not lean against lifelines or railings.

g. Never tamper with safety devices, interlocks, ground straps or similar devices intended to protect personnel, machinery, or equipment.

h. Smoking is permitted ONLY in designated areas.

i. Flush **ONLY** human waste AND SHIP ISSUED TOILET PAPER down the head (toilet). Feminine products, paper towels, and other waste SHALL be disposed of in proper receptacles. Shipboard toilet systems are fragile and will clog if anything but human waste and ship issued toilet paper goes down the system.

j. Stay alert and listen to all announcements over the 1MC.

k. Horseplay is not allowed anywhere onboard the ship.

l. Portable stereo headphones shall not be worn while transiting throughout the ship.

m. Protect your head from low overheads (ceilings) and do not step on the knee knockers (step over carefully).

n. No fraternizing with shipboard personnel.

Name:_____ Rank:_____ Issue Date: _____

o. No underage drinking or sneaking alcohol onboard.

p. Ultimately, understand you will become United States Naval Officers in the near future. Conduct yourself as such.

3. Gym Etiquette and Safety.

a. Wipe down all equipment after use.

b. Wear appropriate clothing (see poster posted by the gym areas).

c. Re-rack all free weights.

d. Do not block officer doorways or p-ways.

4. Engineering Space Safety.

a. Midshipmen must be accompanied by a Sailor at all times when they enter the Main Spaces, Auxiliary Spaces, Pump Rooms, etc.

b. Do not touch any pipes, valves or machinery switches. High temperatures, pressures and voltage are dangerous and may be lethal.

c. Roll down your sleeves and wear proper PPE while inside the Engineering Spaces.

5. Flight Operations Safety.

a. Observers outside the skin of the ship shall wear hearing protection and will only stand in authorized areas safely away from the flight deck.

b. Do not wear covers topside when the ship is at Flight Quarters. Covers tend to fly off your head and become FOD.

c. There will be no eating (topside), drinking (topside) or smoking when the ship is at Flight Quarters.

Name:_____Rank:_____ Issue Date: _____

6. Finding your way around. There is a system to every ship's layout and a fairly simple method to finding any space on the ship. In the ship's telephone directory, next to the name of the space is a set of numbers known as a TACK number (tack is a Navy word for dash). For example, the Wardroom is 02-126-4-L.

The 02 indicates what deck the Wardroom is located on. Below is a list of numbers that shows how ship decks are numbered:

a. 03 Level – Three decks above the main deck
b. 02 Level – Two decks above the main deck
c. 01 Level – One deck above the main deck
d. 1st Deck – The main deck (Mess decks)
e. 2nd Deck – One deck before the main deck
f. 3rd Deck – Two decks below the main deck

The 126 indicates what frame of the forward most bulkhead the Wardroom is adjoined with.

The 4 indicates the relationship to the centerline of the ship. Even numbers are to port and odd numbers are to starboard. The higher the number, the further it is from the center of the ship. A 0 denotes that the space is located in the centerline of the ship.

The L indicates what type of space it is and what that space is used for. The following is a list of letters and their meaning:

Letter	Meaning / Type of space
A	Stowage space
L	Living space
G	Gasoline tanks
C	Controls, Electronics, and Communications space
V	Voids
M	Ammunition space
W	Water tanks
E	Engineering space
K	Chemical and dangerous
Q	Miscellaneous space materials (other than oil and gasoline)
F	Fuel storage

Name:_____Rank:_____ Issue Date: _____

MIDSHIPMAN SURFACE SPECIALIST

NAME:_____ RATE/RANK: _____

This page is to be used as a record of satisfactory completion of designated sections of the JQR. Only designated qualifiers may signify the completion of applicable sections either by written or oral examination, or by observation of performance. The examination or checkout need not cover every item; however, a sufficient number should be covered to demonstrate the examinee's knowledge. As with all PQS and JQR's the line items are to be signed off only when the candidate is prepared to demonstrate or discuss fully the particulars of the line item to the satisfaction of a qualifier. When the candidate obtains a complete understanding of one or more line items, he or she will contact the respective qualifier in order to demonstrate proficiency.

QUALIFICATION RECORD

Trainee has been indoctrinated in this JQR watch station and given a target date of: _____

SIGNATURE: _____ DATE _____
(MIDSHIPMAN)

SIGNATURE: _____ DATE _____
(TRAINING OFFICER)

The trainee has completed all requirements for this watch station. Recommend designation as a qualified Midshipman Surface Specialist.

RECOMMENDED: _____ DATE _____
(RUNNING MATE)

RECOMMENDED: _____ DATE _____
(TRAINING OFFICER)

FINAL QUALIFIER: _____ DATE _____
(EXECUTIVE OFFICER)

Turn this completed JQR into the Summer Training Duty Officer when you report to complete your travel voucher on return to USNA from your training block.