

**RISK ASSESSMENT**

This risk assessment is intended to help identify risks that have the potential to cause harm to any crewmembers onboard the vessel. You are required to protect people as far as "reasonably practicable". A risk assessment is simply a careful examination of what, in the workplace, could cause harm to people, so that you can determine whether you have taken enough precautions or should do more to prevent harm.

Risk assessment should be made simple, and ensure that all crew members read it once complete. If you take a

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<b>1. Maintenance on deck</b> .1 Painting vessel aloft	falling from height falling from ladder ship whistle sounded while working Falling object from above	injury ( Low ) injury ( Low ) injury on ears( Low ) injury (Low )	medium medium medium medium	use safety harness use safety harness do not sound whistle clear above	Chief Officer/Bosen   Chief Officer/Bosen	seek medical attention report the office safety meeting hospitalization insurance claims
.2 working over the side of the ship	falling from height falling to the water( sea ) falling from ladder	injury ( low ) drowning( Low ) injury (low )	medium medium medium	use of safety harness use of safety harness life bouy standby	Chief Officer/Bosen	seek medical attention & report the office hospitalization
.3 working and painting on deck	skin irritation inhaling chemical vapor sun exposure explosion heat exhaustion	skin itching( low ) short of breath(low) sun burn(Low ) fire( Low ) collapse( low)	medium medium medium medium medium	use glove and long sleeves cover the noze use cover all w/ long sleeves standby fire extinguisher stay in shaded area	Chief Officer/Bosen	seek medical attention & report the office safety meeting hospitalization insurance claims
.4 chipping /sanding on deck	sun exposure broken sanding disk caught by machine wet equipment struck by moving hatch cover	exhaustion(low ) eye injry(low ) hand injury( Low) electricution( Low) injury(low )	medium medium Low medium medium	stay in shaded area use mask Installed wheel cover dry up equipment and fixed do not open hatch cover	Chief Officer/Bosen	seek medical; attention & report the office safety meeting hospitalization
.5 sweeping/ cleaning on deck	sun exposure slipping on deck inhaling of dust struck by moving hatch cover	ezhaustion(Low) body injury(Low) short of breath(low) injury (low )	medium medium medium medium	stay on shaded area stay out from wet areaq cover nose with masks do not open hatch cover	Chief Officer/Bosen	seek medical attention report the office safety meeting insurance claims

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.6 repair of vessel structure on deck	smoke inhalation sun exposure cutting of oxy/acetylene hose possible broken welding cable falling from height falling object from above  Crushing by shipping seas on deck struck by moving hatch cover exposure to heat	short of breath(low) exhaustion(low ) fire( Low ) electricution( Low) body injury(Low) head injury( Low)  injury. Death(Low) body injury(Low) hand redness(low)	medium medium medium medium medium  medium medium medium	cover nose with mask use cover all w/ long sleeves set the hose properly connect cable tightly use safety harness use hard hat,stay away from objects above stay on leeward side do not move hatch cover use long leather gloves,wear coveralls with long sleeves designate area for this task develop & follow safe practice for cutting,welding,burning	Chief Officer/Bosen	seek medical attention report to the office conduct safety meeting hospitalization insurance claims
.7 Painting hatch cover partially open	Falling from hatch cover chemical inhalation	injury( low) dizziness(low)	medium medium	Barricade the open space use safety harness use nose masks	Chief Officer/Bosen	seek medical attention report to the office insurance claims
<b>2. Working enclosed space</b> .1 cargo hold	respiratory problem exhaustion/falling lack of oxygen possible flooding of ballast tank Fainting/ suffocation	loose of breath(Low) injury( Low) falling/ injury(Low) drowning(low) injury(low)	medium medium medium medium medium	breathing apparatus on standby establish communication use supply fan do not operate ballast put signage" crew working inside"	Chief Officer/Bosen	seek medical attention, & report to the office hospitalization insurance claims
.2 Ballast tank(DbT)	poor oxygen quality fire expulsion limited visibility noise chemical exposure	short of breath(low) injury( low ) injury(low) injury to ears(low) suffocation(low)	medium low medium medium medium	installed portable air duct no hot work to be carried out install lightning in the passage no working on top supply more air inside	Chief Officer/Bosen	seek medical attention & report to the office hospitalization insurance claims
.3 cofferdam (eng room)	poor oxygen quality fire expulsion noise limited visibility	short of breath(low) injury(Low) injury to ears(low) injury/fall down(low)	medium medium medium medium	use of breathing apparatus hot work not to be carried out no working on top of tank installed lighting use signage"crew working inside" usage of life lines avoid working alone develop safe working practice	Chief Officer/Bosen	seek medical attention & report to the office hospitalization insurance claims
.4 duct keel( eng room)	poor oxygen quality exhaustion fainting noise falling from height slipping limited visibility	short of breath(Low) injuryLow) injuryLow) injury to ears(Low) injury(low) injury(low) Injury(Low)	medium medium medium medium medium medium medium	use of breathing apparatus install supply air standby first aid kit no working on top of the tank use safety harness keep the area dry while working install additional lighting use signage"crew working inside" avoid working alone develop safe working practice	Chief Officer/Bosen	seek medical assistance & report to the office hospitalization insurance claims



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.5 void space( deck )	Falling from height falling from ladder slipping / and falls noise limited visibility	injury( Low) injury (Low) injury (Low) Injury to ears(Low) head injury(Low )	medium medium medium medium medium	use of harness use of harness keep area dry when working no work on top of void space installed additional lightning use of signage:"crew working side" develop safe working practice	Chief Officer/Bosen	seek medical assistance & report to the office hospitalization insurance claims
<b>3. Rope Handling during Arrival/Departure Port</b> .1 Arrival / Departure Manuevers	stricke by ropes caught by machine  falling from the side slipping/tripping  Strike against object  sun exposure exposure to weather(rain)	injury (low ) injury( nLow)  drowning/injury(low) injury( Low)  Injury(Low)  heat burns( Low) sickness(low)	medium medium  medium medium  medium  medium medium	do not stand inside the bight keep of the machine, exposed gear of the machine must be protected with guard kee of the side of the vsl Keep all ropes close to capstan maintain good housekeeping keep ropes in designated areas Maintain machinery in good cond Indicate safe zone on deck Clear all obstruction any time look for shaded area use working rain coat	Chief Officer/Bosen Chief Officer/Bosen  Chief Officer/Bosen Chief Officer/Bosen  Chief Officer/Bosen	seek medical attention & report to thje office hospitalization insurance claims
<b>4. Hoisitng Operations</b> .1 provisions crane, davit cranes, provisioning	falling from height strike against object slipping/ falling swinging of load falling down of load	injury(Low) injury(Low) injury( Low) damage to property(low) injury(Low)	medium medium medium Low medium	use of harness develop inspection program for controls,cabled , hooks,guardrail clearance don't stand under the load adhere to safe work limit of the hoists post sign at hoist inidcatring : "only qualified person install guardrail from hoist or hoist platform to prevent persons from falling inside ot in the water when operating the hpoisrt.	cc\zhief Officer/Bosen	seek medica;l attention & report to the office hospitalization insurance claims
.2 preparation of gangway/ accommodation ladder, (underway)	failling to the sea falling nfrom height slipping/falling caught by hoisting wire crushed by ladder	possible downing(Low) injury (Low ) injury (Low ) hand injury(Low) body injury(Low)	medium medium Low Low medium	use of harness or safety belt use of harness & safdety belt wipe the slippery area avoid running the motor avoid running the motor ensure that gangway is secured ensure handrail and safety net secured. do not work alone, always tanden	Chief Officer/Bosen	seek m,edical attention, & report to the office hospitalization insurance claims

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.3 preparation of pilot assist ladder( underway)	falling to the water falling from height slipping/falling crushed by ladder	drowning(low) injury (Low) injury (Low) body injury(Low)	medium medium medium medium	use of safety harness secured by safety belt wipe slippery area check the condition of wire avoid operating the equipment without confirmation do not work alone, always tandem	Chief Officer/Bosen	seek medical attention & report to the office hospitalization insurance claims
.4 securing of gangway, accommodation(berth)	falling into the water falling into the height slipping crushed by hand rails crushed by the accommodation	drowning(Low) injury(Low) injury(Low) body injury(Low) body injury(Low)	medium medium medium medium medium	use of safety harness use of safety belt wipe out slippery area avoid operating the equipment without confirmation	Chief Officer/Bosen	seek medical attention & report to the office hospitalization insurance claims
.5 securing of pilot assist ladder( departure)	falling into the sea falling from height slipping/ falling crushed by hand rails crushed by pilot assist ladder	drowning(Low) injury(low) injury(low) body injury(low) injury(low)	medium medium medium medium low	do not work alone, always tandem use of safety harness use of safety belt wipe out slippery area avoid operating the equipment do not work alone, always tandem	Chief Officer/Bosen	seek medical attention & report to the office hospitalization insurance claims
.6 operation of lifeboat ( Boat drill/ testing )	crushed by the lifeboat crushed by davit caught by davit hoisting wire hit by davit hoisting wire fall from height fall into the sea slipping/falling sudden release of davit	injury(Low ) injury(Low) injury(ow) injury( Low) injury(low) possible downing(Low) injury( Low) injury(low )	medium medium medium medium medium medium medium medium	do not stand under the lifeboat keep away from davit do not operate the equipment stay away from the wire use of safety harness use of safety harness wipe out slippery area do not operate the emergency lever adhere to safe work limit of the hoists developed inspection program for controls, cabled , hooks, guardrail	Chief Officer/Bosen	seek medical attention & report to the office hospitalization insurance claims
.7 operation of lifeboat (fire drill/releasing)	crushed by lifeboat crushed by lifeboat davit fall into the sea slipping/ falling caught by releasing wire hit by manual lever ( handle)	injury(Low) injury(Low) downing(Low) injury(Low) injury(Low) injury(Low)	medium medium medium medium medium medium	do not stand under the load keep away from the davit area use of safety harness wipe out slippery area stay away from the running wire adhere to safe operation of the equipment only competent personnel operate the equipment develop inspection program for controls, cabled , hooks	Chief Officer/Bosen	seek medical attention & report to the office hospitalization insurance claims

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.8 handling of fire hose (Fire & explosion)	hit by pressurized hose hit by water pressure slipping/ fall fall from hatch cover fall from the stair	injury(Low) injury (Low) injury (Low) injury (Low) injury (Low)	medium medium medium medium medium	do not point the pressure fire hose do not point the pressure fire hose wiped out slippery area use safety harness install safety railing adhere to safe operation of the develop inspection program for the equipment post emergency contact number in highly visible area post appropriate fire extinguisher and ensure accessible post "No smoking /No open flame" sign at the front of the station develop an inspection program to ensure that all fire fighting appliances are available in good condition	Chief Officer/Bosen	seek medical attention & report to the office hospitalization insurance claims
.9 provisioning ( over gangway & ramp)	fall from gangway/ ramp and end up between ship side and dockside	possible drowning(low) injury(low)	medium medium	ensure that gangway/ramp is fastened securely onboard and on dock. ensure that handrail and safety nets had been rigged. line with life buoy had been rigged where the lifebuoy floats in the water underneath the gangway. inflatable lifejacket should be used.	Chief Officer/Bosen	seek medical attention & report to the office. hospitalization insurance claims
<b>5. Bunkering Operation</b> .1 Bunkering operation	oil spillage / water pollution chemical inhalation skin irritation	water pollution(med) dizziness( Low) itching(Low)	medium low low	secure the oil containment box post environmental emergency contact number post "No smoking /No open flame" sign at the refilling station.Designate areas for the tasks provide spill kit on deck fire extinguisher on standby and sign at the refilling station.Designate areas for the tasks provide spill kit on deck fire extinguisher on standby and ensure easily accessible. provide spill kit on deck	Chief Officer/Bosen	seek medical attention & report to the office hospitalization insurance claims

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.2 transfer of waste oil	Fire Spillage	damage to property(Med) water pollution(Med)	medium medium	develop proper procedures keep the MSDS on site ensure that the contractor removing the waste oil have the appropriate training.(transport of D/G). conduct inspection of the contractor to ensure proper procedures are being adhered to. post "No Ignition Source" at the waste tank keep all combustible materials a safe distance away from the waste oil tank	Chief Officer/Bosen	seek medical attention & report to the office hospitalization insurance claims
<b>.6 Maintenance (eng.dept)</b> .1 overhauling of main engine	falling object from above slipping/ falling pinned down by piston cutting of hoisting wire during hoisting oil contamination with skin body	injury(Low) Injury(Low) Injury or death(low) injury( low) skin irritation	medium medium medium medium medium	keep overhead clear object, use hard hat. used of safety helmet and wear proper attire.	Chief Officer/Bosen	seek medical attention & report to the office hospitalization insurance claims
.2 welding work/repair (inside engine room)	damage to eyes Electrecution fire explosion fumes gases	injury (Low) injury/shock(Low) Injury/loss of property fire( Low ) falling down suffocation(low)	medium medium medium medium medium	Ensure welder wear appropriate attire develop and follow safe working practice for welding/cutting and burning. ensure fire extinguisher is easily accessible designate specific area for these tasks do not work near the flammable area make sure that the area is safe, and clean	Chief Officer/Bosen	seek attention and report to the office report to the office hospitalization insurance claims
.3 cleaning of m/e sump tank	limited visibility oil contamination slipping/ falls gas poisoning	head injury(Low) skin irritation(Med) head injury(Low) fainting/injury(Low)	medium medium low medium	install fire proof lighting make sure that the person working in the sump tank wear proper attire. clean and wipe out oil along the path. ventilate the area, make sure continuous supply of air is maintained. develop and adapt safe working practice standby at the entrance SCBA equipment always working with tandem, avoid working alone.	Chief Officer/Bosen	seek medical attention and report to the office hospitalization insurance claims

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4. rigging of spare part (crane operation)	possible cutting of wire rope hit by falling object	injury(low) injury(low)	medium medium	develop and adapt safe working area ensure that all personnel are wearing hard hat. do not stay under the load.	Chief Officer/Bosen	seek medical attention and to the office. hospitalization insurance claims
5. overhauling/repair of generator engine.	hit by falling object slipping/ falling fall from height oil contamination dehydration fire	injury (low) head injury(Low) injury (low) skin irritation( low) fainting/injury(Low) damage to property(Low)	medium medium medium medium medium	stay away from the load use hard hat use safety harness or safety belt install railing or guard rails on the work site. personnel working on the generator shall use appropriate working clothes. develop and adapt safe working area avoid flammable materials	Chief Officer/Bosen	seek medical attention & report to the office insurance claims
7. Cargo operation (loading/unloading)	falling object from above slipping/ falls cutting of wire ropes falling from height crushed by cargo load	injury(Low) injury(Low) injury(Low) injury(Low) injury(Low)	medium medium medium medium medium	stay away under the load wipe out slippery area check of wire rope before using use of safety helmet and wear proper stay away from cargo	Chief Officer/Bosen	seek medical attention & report to the office hospitalization
8. Navigation 1. Operation in restricted area	grounding bottom touch	damage to property and injury(Med)	high high	make sure that the officer on duty is taking care of his watchkeeping. use of anti collision device"ARPA and Radar". post additional look out if required. do not leave the bridge with reliever use appropriate judgement. report the no go area avoid shallow water make sure that the gyro is giving the right direction. develop accurate voyage planning. use updated charts. Update the charts to notice of mariners consult admiralty sailing direction and other aid to navigation information.	Chief Officer/Bosen	seek medical attention & report to the office hospitalization insurance claims
2. Recovery of persons from the water	capsizing man overboard abandonship	death death death	high high high	Put as many layers of clothes as much as possible, Avoid entering the water as long as possible. Do not forget to wear your life vest. Float your back with minimum feet movement Stay Calm, Float as still as possible, legs together, elbows closed to your side, and arm folded across the chest. Keep your skin from the water as much as possible.	Master	send SOS report to authorities hospitalization insurance claims