

Nautical Skills 2023 COMPETITION

Teams Kick Off & Exercise Overview Session



MASTER MARINERS
OF CANADA



MASTER MARINERS OF CANADA



Who we are:

- a national, not-for-profit association representing command-qualified master mariners, like-minded seafarers, industry members, and cadets across the country. Our organization takes official positions on important issues to ensure safety and to protect seafarers' rights wherever they are working.
- Our work focuses on three main pillars:
 - building awareness
 - supporting education
 - upholding advocacy

What is the Nautical Skills Competition:

- started in 2012 as a way for the MMC NL Division to promote the maritime sector, encourage team building and professionalism, and to foster a culture of safety to the younger generation of upcoming seafarers.
- It has become one of the largest and most successful events in the Division's annual calendar.
- The 1st place winners of the Nautical Skills Competition are presented with a Plaque named in honor of Captain Jim Thorpe (R. James Thorpe). The plaque honors the memory of this lifelong respected and professional mariner.

**Nautical
Skills 2023**
COMPETITION

COMPETITION RULES

General Rules:

- Only four members of your team can participate in any one exercise, the other members can observe but cannot assist
- A 1st, 2nd, and 3rd year student must participate in every exercise
- Every team member must participate in at least one exercise
- 1-2 minute safety moment is required at the start of every exercise
 - Each safety moment must be applicable to the exercise in which you are competition
 - Every team member must participate in at least one safety moment
- The exercise begins after completion of the safety moment; teams have 45 minutes to complete the task(s)
- TEAM NAMES – WHEN you create a team name please email it, along with your team number to nsc@mastermariners.ca

EXERCISES

Each team will be required to compete in 7 different exercises, which comprise the following marine-related areas:

1. Dynamic Positioning
2. Seamanship
3. Emergency Management
4. Offshore Operations
5. Shiphandling/Navigation
6. Search and Rescue
7. Marine Emergency Duties

DYNAMIC POSITIONING

- This exercise will take place on a multi-purpose support vessel (MSV).
- The exercise will start with departure from a dock and a short transit to a work location.
- On arrival at the work location, the participants will be required to set the vessel up on DP.
- Using DP, the vessel will then have to be moved to a defined position for the start of a cable lay operation.
- There will be vessel traffic in the vicinity.
- DP, joystick, manual levers, radar, radios, electronic chart, navigation lights, sound signals, etc. will all be available and expected to be used, as required.

REFERENCES:

- DP System Manual Chapter (USB Stick) to be picked up at CMS W2104

Exercise Lead: Captain Glenn Fiander

Glenn.Fiander@mi.mun.ca

Office: CMS W2104

Exercise location: Heritage Bridge Simulator (Main floor – CMS)

SEAMANSHIP

Participating teams will be challenged to:

1. Encode and decode messages using the signal flags of the International Code of Signals (INTERCO).
2. Tie a heaving line knot (monkey fist), attach it to a heaving line, and throw the heaving line through the centre of a life ring.
3. Demonstrate various knots, bends, hitches and splices and the proper use of various mooring line stoppers.
4. Assemble items for working aloft or over the ship's side; rig various purchases and discuss/demonstrate the use of this equipment.
5. Identify various light and shape displays indicating a vessel's type, navigational status or operational condition, along with various elements of the IALA Maritime Buoyage System – Region 'B'.

Exercise Lead: Captain Troy Nolan

troy.nolan@mi.mun.ca

Office: W3000A

Exercise location: Rigging Room (First Floor- MI)

EMERGENCY MANAGEMENT

- This will be an exercise with the outcome having an impact on either the Cargo or Stability of the vessel or both.
- Participants will be given a situation as if they were onboard a vessel navigating a coastal area in ice infested waters.
- They will encounter a marine emergency requiring them to respond yet maintain the safety of their vessel with a concern for the stability of the vessel.
- Participants will be required to effectively manage the emergency and carry out a review of their own condition to verify they are still seaworthy.
- This calculation could affect the choices of action for the emergency.

Exercise Lead: Captain Victor March

Victor.March@mi.mun.ca

Office: W2112 (CMS)

Exercise location: SEN Simulator (Third floor – MI)

OFFSHORE OPERATIONS

Towing a Rig from a Berth

- The student team will be required to maneuver an anchor handling tug along side a semi submersible drilling rig and connect the towing bridle.
- The team will then be required to tow the rig out of its berth alongside and to a deep-water site in the bay.
- There will be a harbour tug on standby to assist with the maneuvering and towing of the rig to its new location.
- The harbour tug will act on the commands of the Anchor Handling tug team members.
- The OOS simulator will be the Anchor Handling tug and the Harbour tug will be controlled by the OOS control room operator.
- Tug commands will be given to the students at the first introductory session of the simulator.

Students will be marked on :

| | |
|--|---|
| Navigation | Effective use of all equipment on the anchor handling simulator |
| Communication | Knowledge of the task |
| Teamwork and leadership within the group | Completion of the task |

Exercise Lead: Captain Eben March

Ebenezer.March@mi.mun.ca

Office: CMS Offshore Operations Bld

Exercise location: Offshore Operations Simulator (Main floor – CMS)

**Nautical
Skills 2023**
COMPETITION

OFFSHORE OPERATIONS



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COMPETITION

SHIPHANDLING/NAVIGATION

- Teams will be required to maneuver and navigate their ship within the Bull Arm Deep water Fabrication Site out into Trinity Bay.
- Teams are to maneuver their ship safely off the dock and turn the vessel to proceed outward into the basin. They must then turn the ship again to go back alongside the dock .
- The vessel will be initially berthed port side to the quay with the bow facing inward. To complete the exercise the vessel must be berthed starboard side to the quay with the bow facing outward.
- The vessel must maneuver clear of the dock and backed out into the turning basin, to turn the ship through 180 degrees and then safely navigate your vessel avoiding other ships to proceed back onto the dock.

References:

- Radio Aids to Marine Navigation 2021 – Part 3 Vessel Traffic Services
- International Chamber of Shipping Bridge Procedures Guide
- Danton's The theory and practice of Seamanship, sections related to ship handling
- DJ House Seamanship Techniques, section related to ship handling
- Collision Regulations, appropriate to navigational safety and detection or targets and action to avoid collision

Exercise Lead: Captain Chris Hearn

Christopher.Hearn@mi.mun.ca

Office: CMS W2100

Exercise location: Full Mission Bridge Simulator (Bottom floor – CMS)

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COMPETITION**

SEARCH AND RESCUE

- The event will be a series of short scenarios where the participants will have to demonstrate the core STCW skills demanded of a FRC operator.
- The participants will:
 - launch and recover from a moving ship;
 - search for and recover survivors in the water;
 - and tow disabled survival craft out of danger to a place of safety.
- A different participant will act as coxswain for each scenario.

Exercise Lead: : Captain Anthony Patterson Anthony.Patterson@virtualmarine.ca

Exercise location: First Floor of OOS Building

MARINE EMERGENCY DUTIES

On the Friday evening of the Competition weekend

A relay and competition for time:

- Part A: Don a Fire Suit/ Bunker Gear
- Part B: Attach a fire nozzle and deploy hose
- Part C: Drag hose to where rescue manikin is located
- Part D: Drag rescue manikin to safe area (back where you started)
- Part E: Don an immersion suit and a second student dons a life jacket. Student in Immersion suit activates EPIRB and student in life jacket throws rescue quoit at a target

Exercise Lead: Captain Glenn Fiander & Captain Eben March

Glenn.Fiander@mi.mun.ca / Ebenezer.March@mi.mun.ca

Office: CMS W2104 /CMS Offshore Operations Bld

Exercise location: MI Gym

FAMILIARIZATION SESSION

- **Simulator Familiarization Session:**
 - Friday, February 17th from 5:30pm to 7:30pm – maximum of two members per team allowed at each exercise session in the location the exercise will be held during the competition (unless alternative location is identified by exercise lead).
 - 1st session from 5:30pm to 6:30pm
 - 2nd session from 6:30pm to 7:30pm
- **Locations:**
 - Dynamic Positioning Exercise – Heritage Bridge Simulator (Main floor – CMS)
 - Shiphandling/Navigation Exercise – Full Mission Bridge Simulator (Bottom floor – CMS)
 - Offshore Operations Exercise – Offshore Operations Simulator (Main floor – CMS)
 - Emergency Management Exercise – SEN Simulator (Third floor – MI)
 - Search and Rescue Exercise – TBD
 - Seamanship Exercise – Rigging Room (First Floor- MI)

Nautical Skills 2023 COMPETITION

- Friday, March 3rd from 5pm to 8:30pm
 - 5pm to 6pm – registration, food, and briefing in the cafeteria
 - 6pm to 7:30pm – Marine Emergency Duties Exercise in the Gymnasium
 - 7:30pm to 8:30pm - Simulator Familiarization Session
- Saturday, March 4th ALL DAY
 - Competition starts at 8am
 - Gala dinner at 7:30pm in cafeteria

NEXT STEPS

- Plan & Prepare
- Attend Familiarization Session
- HAVE FUN!

Questions?

Nautical Skills Competition Coordinator

Tel: (709) 778-0339

Email: nsc@mastermariners.ca



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