



Division 12 Water Rescue Team

Training Safety Plan



Drill Dates: 8/14 & 8/28

Time: 0900- 1200

Drill Location: 645 Lenox Rd, Glen Ellyn

Type of Training: (check all that apply)

☐	Swiftwater
☒	Dive
☐	Ice Dive
☐	Shore Support
☒	Watercraft

Description of Training:

Boat operations and boat-based dive/sonar procedures. We will bring any and all boats to Lake Ellyn Boathouse. There will be a focus on the D12 boat package, but any ancillary department boats may be used. We will work on boat-based dive operations and movement of the sonar with a boat team.

Safety Officer required: Yes

Instructor PPE Requirements:

☐	SCUBA	☐	Full PPE	☐	Helmet	☐	Eye Prot.	☒	PFD		Ear
☒	Gloves	☒	Radio	☐	Lights	☐	Vest	☐	Other	☐	Dry suit

PPE/Equipment Required for Participants:

☐	Helmet	☒	Dry Suit
☐	Eye Protection	☒	PFD

☒	SCUBA BCD	☐	Boots
☒	Gloves (type): Dive	☒	Radio

Hazard & Control Measures: (check all hazards and write in control measures)

☒	Atmospheric (smoke, dust, oxygen deficient, etc)
☐	Combustible/ Flammable Environment
☐	Confined Space
☐	Electrical
☐	Elevation
☐	Hazardous Substances (asbestos, chemical, etc.)
☐	Nighttime conditions
☐	Sewage/Septic
☐	Sharp Edges/Objects
☐	Structural
☐	Terrain
☐	Traffic
☒	Water
☒	Weather

Accountability:

☐	Buddy System
☒	Visual
☒	Passport
☒	Dive master control sheet
☐	Other:

In case of Emergency:

☐	Code word or Signal used –
☐	RIT assigned –

☒	ALS standby – ALS equipment on site
☐	Other:

Communications:

☒	Radio/Primary Frequency – Blue
☐	Radio/Secondary Frequency –
☐	Hand Signals
☒	Rope Line – Line tenders
☐	Lights
☐	Other:

Resources Assigned: (check all that apply and fill in designated unit)

☒	Safety Officer:
☐	Rehab:
☐	Rescue:
☒	Sonar:
☒	Watercraft:
☒	ROV:
☐	Other Resources/Equipment:

Safety Planning Notes: (site plan, drawings, etc.)

ALS equipment on site

Teams will communicate via hard wired comms or radio.

Teams will be observed by safety officer.

NFPA Objectives (Check all that apply):

Watercraft:

- ☒ Recognize the need for watercraft for the search and rescue operations along with the resources necessary to conduct the watercraft operation.
- ☒ Recognize the general hazards associated with a watercraft operation and the procedures needed to mitigate these hazards within the area of operation.
- ☒ Identify the watercrafts available to the agency and their capabilities, limitations and special considerations associated.
- ☒ Don the appropriate PPE including a PFD, audible signaling device, visible signaling device.
- ☒ Establish crew roles and accountability for members who are active on the watercraft.
- ☐ Conduct operations to take a vessel under tow with a motorized craft.
- ☒ Conduct operations to deploy and recover rescuers from the water.
- ☐ Conduct operations to recover conscious and unconscious civilians from the water.
- ☒ Conduct operations to utilized sonar-based search.
- ☒ Practice crew overboard measures including use of reaching tools and throw bags.
- ☒ Identify hazards to watercraft operations including current, weather, other vessels, shallow water and submerged hazards.

Dive:

- ☒ Recognize the need for dive operations along with the resources necessary to conduct the dive operation.
- ☒ Recognize the general hazards associated with dive operations and the procedures needed to mitigate these hazards within the area of operation.
- ☐ Identify rescue versus recovery dive.
- ☒ Don the appropriate PPE including thermal protection, dry suit and accessories, buoyancy compensation device (BCD), visible signaling device and cutting tools.
- ☒ Conduct the sub-surface search method chosen for the rescue or recovery operation.
- ☐ Practice emergency procedures for the diver in distress, missing diver or medical emergency.
- ☐ Conduct operations to recover evidence, procedure to maintain chain of custody and documentation of the scene.

☐ Conduct annual fitness test supplied by the International Association of Dive Rescue Specialists (IADRS).

☒ Designate a safety diver who is equipped and positioned to immediately submerge and lend assistance to a diver in distress or engage in a search for a missing diver.

☒ Designate a 90 percent diver who is equipped and positioned to quickly enter the water and assume the role of safety diver.

☒ Ensure that all divers have a reserve supply of breathing air so that the diver upon reaching surface has no less than 500 psi.

Swiftwater:

☐ Recognize the need for swiftwater search and rescue and the resources necessary to conduct the operation.

☐ Recognize the hazards associated with swiftwater operations, focusing on the hydraulic elements specific to the swiftwater environment.

☐ Don the appropriate PPE for the swiftwater operation; including PFD, thermal protection, helmet, boots, gloves, cutting devices, audible signaling device, and visible signaling device.

☐ Construct and operate rope rescue system anchors and mechanical advantage systems appropriate for the operation.

☐ Construct a tension diagonal system.

☐ Construct a highline system over water.

☐ Construct and operate a rope system to position and move a tethered boat.

☐ Conduct shallow water crossing methods

☐ Conduct live-bait rescues.

☐ Perform offensive swimming and defensive navigation of the swiftwater environment.

Shore:

- ☒ Recognized the need for dedicated shore support for the water-based operation and the resources necessary to conduct the operation. Resources shall include medical equipment, communication equipment, audible signaling device, accountability system.
- ☒ Recognize and continually evaluate the hazards associated with water-based operations.
- ☒ Establish dedicated zones of operation.
- ☐ Conduct witness procedure that involves separating, isolating, securing and interviewing in the area where they witnessed the event.
- ☐ Conduct non-entry search and rescue procedures including all methods of reaching, probing and throwing of floatation devices.
- ☒ Designate a dive supervisor who has the authority to manage all aspects of the water-based operation.
- ☒ Designate a dive safety officer who has the training to evaluate all aspects of safe water-based search and rescue operations as well as all aspects of safe shore support.
- ☐ Conduct operations to establish a consistent deployment zone containing the tendering, communication and safety needs for the water-based personnel.
- ☒ Serve as support to the water-based personnel; including obtaining and assembling gear, assistance with donning and doffing and performing pre-entry checks.
- ☒ Conduct appropriate decontamination operations for the water-based personnel.
- ☒ Conduct line tendering for the chosen method of search for the dive personnel.
- ☐ Prepare the entry zone for emergency procedures for a diver in distress, missing diver or medical emergency.
- ☒ Track and document the status of divers including bottom time, location, depth and visibility.
- ☐ Track, document and evaluate the progress of the water-based operation.

Ice Diving:

- ☐ Recognize the need for sub-surface ice search and rescue operations and the resources necessary to conduct the operation.
- ☐ Recognize the hazards specific to the ice search and rescue operation and the procedures necessary to mitigate them.
- ☐ Conduct procedure to prepare the entry zone including an evaluation of the quality of the ice, the cutting of the entry hole, and clearing of snow.
- ☐ Establish the warm zone specific to the ice environment that may include, inflatable shelter, generator-powered heater, ice awls and warm water.
- ☐ Conduct procedure for an off-line diver in the sub-surface ice environment.

I.A.D.R.S. ANNUAL WATERMANSHIP TEST

Evaluation Parameters

There are five exercises that evaluate stamina and comfort in the water, each rated by points. The diver must successfully complete all stations and score a minimum of 12 points to pass the test. The test should be completed with not more than 15 minutes between exercises.

Exercise 1: 500 Yard Swim

The diver must swim 500 yards without stopping using a forward stroke and without using any swim aids such as a dive mask, fins, snorkel, or flotation device. Stopping or standing up in the shallow end of the pool at any point during this exercise will constitute a failure of this evaluation station.

Time to Complete Points Awarded

Under 10 minutes 5

10-13 minutes 4

13-16 minutes 3

16-19 minutes 2

More than 19 minutes 1

Stopped or incomplete Incomplete

Exercise 2: 15 Minute Tread

Using no swim aids and wearing only a swimsuit the diver will stay afloat by treading water, drown proofing, bobbing or floating for 15 minutes with hands only out of the water for the last 2 minutes.

Performance Criteria Points Awarded

Performed satisfactorily 5

Stayed afloat, hands not out of water for 2 minutes 3

Used side or bottom for support at any time 1

Used side or bottom for support >twice Incomplete

Exercise 3: 800 Yard Snorkel Swim

Using a dive mask, fins, snorkel, and a swimsuit (no BCD or other flotation aid) and swimming the entire time with the face in the water, the diver must swim non-stop for 800 yards. The diver must not use arms to swim at any time.

Performance Criteria Points Awarded

Under 15 minutes 5

15-17 minutes 4

17-19 minutes 3

19-21 minutes 2

More than 21 minutes 1

Stopped at any time Incomplete

Exercise 4: 100 Yard Inert Rescue Tow

The swimmer must push or tow an inert victim wearing appropriate PPE on the surface 100 yards non-stop and without assistance.

Performance Criteria Points Awarded

Under 2 minutes 5

2-3 minutes 4

3-4 minutes 3

4-5 minutes 2

More than 5 minutes 1

Stopped at any time Incomplete

Exercise 5: Free Dive to a depth of nine feet and retrieve an object

Performance Criteria Points Awarded

Performed satisfactorily Pass

Stopped or incomplete Incomplete