

CONDITIONS
Of international competitions
Between smoke diver service teams
name V.V. Dehterev
in 2019

The final of competition for the prize to V.V. Dekhterev is carried out in accordance with the plan of the General Directorate of the Ministry of Emergencies of Russia for St. Petersburg and the competition program. The organization of the finals is entrusted to the head of the ESD, the head of the LM of the Main Directorate of the Ministry of Emergencies of Russia for St. Petersburg, the head of the FGI "CMC of the Ministry of Emergencies of Russia for the City of St. Petersburg" and the head of the 2nd FRT of the FFS. The panel of judges includes staff of FFS and PFROCMC, NFCFE and ERWof headquarter, employees of the Office for the Organization of Civil Protection and Fire Safety Events of the Committee on Law, Order and Security.

These conditions are developed in accordance with the "Regulation on the holding of international competitions among the smoke diver team for the prize named after V.V. Dekhterev "(Regulation).

Participantsofthecompetition

Teams that are not part of the fire and rescue garrison of St. Petersburg takes part in the competition.

The team includes four smoke divers (one of them is the head of the smoke diver team)(link commander)and security guard (protecting smoke diver)). Smoke divers must have copies of documents for the right to work in breathing apparatus, in accordance with the requirements of regulatory documents of the country of the participant (Requirements)and provide them at the request of the arbitrator. The equipment of smoke divers must comply with the Requirements, when performing exercises, the equipment at the time of finish (completion of the exercise) must correspond to the equipment at the start, the lap belts of the SCBA (self-contained breathing apparatus) are fastened. Exercises are performed in a single-balloon design of BACCA (breathing apparatus containing compressed air).

The marking of helmets must comply with the Requirements.

It is not allowed to change the composition of the unit, including the unit commander, when performing exercises, with the exception of cases of smoke divers injury to fumes and the impossibility of their further participation.

It is permitted to replace one of the participants with a team representative, in the case if he cannot continue to perform Exercise 1 for medical reasons. If one of the participants cannot continue to perform Exercise 2 for medical reasons, it is allowed to replace it with a smoke diver acting as a guard at the security post (protecting smoke diver), while a representative of the team is appointed as a guard at the security post (protecting smoke diver).

Exercise Conditions

Competitors are invited to alternately perform two exercises:

1. Overcoming fire band mental preparation with elimination of leakage of fluid through the shut off valve of the pipeline, with the elimination of burning flammable

liquid (hereafter FL), with the opening of the opening using the circular saw blades and opening the door opening the manual tool.

2. The deployment deck in the superstructure, opening the door with a saw disk, finding on the 1st floor of the superstructure of the "victim" and the evacuation, liquidation conditional "fire".

EXERCISE № 1.

Overcoming fire band mental preparation with elimination of leakage of fluid through the shut off valve of the pipeline, with the elimination of burning flammable liquid (hereafter FL), with the opening of the opening using the circular saw blades and opening the door opening the manual tool.

At the command of the Judge of the "Preparing for the Exercise" Judge, the team's personnel arrive at the launch site in combat clothing, equipment and SCBA, an assault ax and a hand tool such as the "Halligan tool". Fire extinguishers (primary and backup) are installed at the designated place, and it is allowed to take out the check and the circular saw. Commander of the Gas and Smoke Protection Service (GSPS) inspect personnel, military clothing, equipment firefighting equipment and then reports on the readiness of the Judge in the participants. The judge at the participants carries out a control inspection of the equipment, after which a "Start" command is issued. The smoke diver team checks breathing apparatus in accordance with the requirements. The judge at the distance and the stages of the exercises on the command of the senior judge of the competition activates the "irrigation" system and sets fire to the flammable liquid, after which the judge gives the "Steady" and "Go" commands (shot of the starting pistol) with the participants.

Exercise is performed by all team members, including a guard at a security post (protecting smoke diver) (while a guard at a security post (protecting smoke diver) is included in the smoke diver team).

The time from giving the command "Prepare to complete the exercise" to the command "To start", allotted to prepare for the start, is no more than 5 minutes.

The time to complete the exercise is determined by no more than 10 minutes. After 10 minutes, the exercise is considered to be failed.

In case of failure to exercise, the team gets a penalty time of 25 minutes.

The smoke diver team overcomes shells according to the scheme (Fig. No. 1), when climbing (descending) the stairs, you must move along the stairs, with the exception of the stairs when leaving the pit of the trestle. The assault ax and hand tools are carried in any convenient way. It is not allowed to throw an assault ax and hand tools, it is only allowed to transfer it from the hands of one smoke diver to another when overcoming shells.

After the command "GO", link GSPS overcomes the shell No. 1 "the overpass". When overcoming the "window" is not allowed to use (advance) fence" overpass "in front of the "window". Moving on the projectile GSPS link eliminates fluid leakage by blocking the valve of the pipeline (the valve is twisted until it stops). The GSPS link can continue to move (cross the control line) only after the valve is closed and the "liquid spillage" is eliminated. The descent down the stairs into the pit is carried out facing her, overstepping no more than one step. It is allowed to descend directly to the ground from the staircase when leaving the pit,.

Further, the smoke diver team moves to projectile No. 2, while passing this projectile, the GSPS link eliminates the burning of combustible liquid in the pan

using one of the fire extinguishers. In the case where the liquid to eliminate burning a fire extinguisher can not be permitted to use the extinguisher backup (it is allowed to descend for the back-up fire extinguisher one from the smoke diver). It is forbidden to extinguish liquid simultaneously with two fire extinguishers.

In the case of a failure of both fire extinguishers, the exercise stops, the full link of the smoke diver team returns to the start line for a second run.

After eliminating the burning of flammable liquid in the baking sheet, the gas defender should put the used fire extinguisher (s) in the designated place, after these the full smoke diver team continues the passage of the strip. The smoke diver team can continue to move only after the elimination of combustion and placing a fire extinguisher in a designated place.

Next the smoke diver team overcomes shells №3, № 4, № 5. With the passage of the projectile №3 smoke divers rise to the "labyrinth" and descend from it in the designated area, and then overcome the projectile №4 «fence», while smoke divers can assist each other in overcoming the shells. It is not allowed to use (attack) the metal base of the projectile when overcoming projectile No. 4, the "fence".

With the passage of the projectile No. 5, in front of the entrance to the second tunnel smoke diver part of link GSPS turns the saw disk and produces an opening of the aperture (the shell No. 6), by cutting the bolts of the locking devices and then jamming the saw, place it on the designated place and part of link GSPS continues to move to the next shells according to the scheme. Working with a rotatory saw, all smoke divers are located behind the cutting smoke diver. It is forbidden to pick up and / or start a rotatory saw before all smoke divers leave the first tunnel, to direct the moving cutting part of the saw towards smoke divers.

Next smoke divers overcome shells number № 7, № 8, № 9.

After the passage of the projectile number 8 the smoke divers team performs the opening of the door (projectile №9), in the designated place, using a hand tool. It is allowed to start opening the door only after all team members come down from projectile №7 (both legs of the last smoke diver are on the ground). The smoke diver team finishes after opening the door. It is not allowed to step in, fall over, bring the tool and its parts beyond the plane of the door when opening the door.

The result is determined by the time from the start to the crossing of the finish line by the last smoke diver, as well as the imposed penalty time. Smoke divers turn off the SCBA and prepare for the next exercise at the end of the exercise.

EXERCISE № 2.

The deployment deck in the superstructure, opening the door with a saw disk, finding on the 1st floor of the superstructure of the "victim" and the evacuation, liquidation conditional "fire".

At the command of the judge of the informant "Prepare to complete the exercise," the personnel of the team arrives at the starting point in combat clothing, SCBA, with equipment. The exercise is carried out by a five people company (smoke diver team (commander, two smoke divers) and a guard at the security post (protecting smoke diver) At the starting line fit the delivery hose Ø 51 mm, length 20 m (± 1 m) (the number of fire-hoses and their method of styling is not regulated), manual diverter stem, set the saw disk. The fire-hoses are not connected, manual the barrel from the hand control branch pipe disconnected. Magistral line Ø 77 mm. laid

in floor 2, the three-run branching mounted on the platform 2 floors. Soft stretchers are located at one of the smoke divers.

The smoke diver team commander inspects personnel, turnout gear, equipment, communications equipment (not less than at the smoke diver team commander and security guard post (protecting smoke diver) and lighting, and then reports on the readiness of the judge to the participants. The judge at the participants carries out a control inspection, after which a "Ready" command is issued. The smoke divers check breathing apparatus in accordance with the requirements and are included in the SCBA. Starting position: gas defenders included in the SCBA are on the Start line. After making sure that the participants are ready, the judge gives the "Steady" and "Go" commands (shot of the starting pistol).

The time from giving the command "Prepare to complete the exercise" to the command "To start", allocated to prepare for the start, is no more than 10 minutes.

To complete the exercise, the time is determined no more than 15 minutes. After 15 minutes, the exercise is considered to be failed.

In case of failure to complete the exercise, the GSPS link will be awarded 35 penalty minutes.

Smoke diver team overcomes shells according to the scheme (Fig. No. 2). The guard at the security post (protecting smoke diver) starts with the smoke diver team.

After the command "GO", link GSPS takes firefighting equipment (pressure hoses \varnothing 51 mm, hand blocking hose, a saw disk) and moves according to the figure, guard on duty security (insuring smoke diver) is allowed to assist in carrying the fire-hose and firefighting equipment. The smoke diver team rises to the second floor, connects the working hose line to the branching, at the same time one of the smoke diver opens the front door of the second floor of the deck superstructure with a rotatory saw, then dampens the rotatory saw and puts it in the designated place. It is not allowed to find other smoke divers (guards at the security post) or parts of their body between the gas deflector and the door surface when working with a rotatory. It is forbidden to start a rotatory saw before lifting to the site of the second floor, to direct the moving cutting part of the saw towards smoke divers (guard at the security post (protecting smoke diver)).

A smoke diver checks for water in the working line by opening the trunk for a short time, while the exit of the water stream should be visually visible, before entering the "unsuitable for breathing zone" (entrance to the deck structure). All smoke divers of the smoke diver team and the guard at the security post (protecting smoke diver) must be on the site of the second floor at the moment of entry of the smoke diver team into the smoky zone. From the moment when the first smoke diver of the smoke diver team enters the deck structure, the pressure on the pump will be at least 3 atm., on command of the guard at the security post (protecting smoke diver), it can be increased. To avoid the falling power tool guard on duty security (insuring vasodilatation) is allowed to move a saw disk, after its staging in the designated location of the outage, and input GSPS link in the "irrespirable atmosphere."

The smoke diver team carries out bomb sweep in the premises of the 2nd and 1st floors of the deck structure with a working line filled with water, it is not allowed to block the water in the working line after entering the "unsuitable for breathing environment." A security guard at a security post (protecting smoke diver) is allowed to assist the smoke diver team in laying the working hose line, while he must be in

front of the entrance to the “unsuitable for breathing environment”, on the second floor site, from the branching side, from the moment the smoke diver team enters the add-on, to the finish of the smoke diver team.

The smoke diver team in the smoky area of the 2nd floor finds a gangway (stair) on the 1st floor, descends to the 1st floor of the deck structure, searches for the “victim” and carries it out, on a soft stretcher, to fresh air to the designated place, while laying the working lines to the position of the "shovel", after which the "fire" is eliminated. When carrying out the “injured”, strikes against structural elements, the ground, drooping from the stretcher of arms, legs and head, blows to the “injured” are not allowed. The movement of smoke divers in the absence of a laid working line is not allowed.

It is allowed to return the smoke diver (-s) to the rooms of the deck structure for laying the working line. The shoveler's work on the “fire source” begins when the “injured” is laid in the prescribed place and all team members of the smoke diver team are in the designated place (on unpainted asphalt surface). The gunman with the barrel and the other smoke divers of the smoke diver team should be collectively as indicated, while working to eliminate the conditional “fire center”.

The result is determined by the time from the start to the filling of the target with water, as well as the imposed penalty time. Smoke divers are disconnected from the SCBA, together with the guards at the security post, they remove the hose lines as soon as possible, at the end of the exercise.

Notice:

1. «Unbreathable zone» — zone from entrance in the deck of the ship to electronic target (finish).

2. During performing exercises equipment must satisfy to following requirements:

assault fire axe: weight – not less than 3.5 kg., length - not less than 80 cm;

3. hand tools of "Halligan tool" type: length – not less than 70 cm;

4. During the climbing (descending) the stairs need to move the steps.

5. 5. It is forbidden to cross the control lines before the end of the passage of their last smoke divers.

6. In case of violation by the participant (participants) of competition of Requirements leading to "traumatizing" smoke divers, performance of exercise by the smoke diver team stops before elimination of this violation. At the same time, the time of the exercise does not stop. If one of the smoke divers' pressure in the cylinder of breathing apparatus is 0 kgf/cm² (MPa, bar), the judge stops the Exercise, and it is considered unfulfilled, smoke diver team charged time according to the conditions of the Exercise.

7. In the case of disconnection of the lung demand valve from the front of the SCBA or from the tee SCBA, during the exercise, the exercise of smoke diver team stops until the elimination of this violation. At the same time, the time of the exercise does not stop and the penalty time is calculated according to the Table.

8. 8. If during the exercise one of the smoke divers removed the front part of the face mask (or the action with the front part allows you to take a breath from the

environment), the exercise is considered unfulfilled, the smoke diver team charged time according to the conditions of the Exercise.

9. In case of a break (breakage of the buckle) of the waist belt and (or) shoulder straps of SCBA, the smoke diver is allowed to continue the movement until the end of the exercise, the penalty time is not charged.

10. If during the exercise one of the smoke diver runs out of air in the SCBA cylinder or the SCBA fails, then it is allowed to connect to another smoke diver.

11. In case of violation of the integrity of the main hose line, which does not allow to eliminate the "fire", the smoke diver team stops the exercise and they are given a second run.

12. If after overcoming the closing of smoke diver team shell No. 2 (the tray of a burning liquid) there was a re-flash of the pan, smoke diver crossed the burning pan or braising liquid is made in full, smoke diver team continues execution of Exercise No. 1. The team is charged a penalty time according to the Table. Return of the smoke diver team for re-extinguishing the liquid is not allowed.

13. If there was a rupture of the working hose line that does not allow to eliminate the "fire", the smoke diver team has the right to return to the start line, take the backup firehose and replace it. The smoke diver team be allowed to leave the deck of the superstructure, in full force, with the side branching, to hold the Assembly of the working line using the backup firehose and the barrel. Before re-entering the "breathing zone" smoke diver checks the presence of water in the working line by a short-term opening of the trunk, while the water outlet should be visually visible. Further, the smoke diver team moves in accordance with the scheme (Fig. No. 2). Allowed to carry the guards on duty security (insuring vasodilatation) backup of the firehoses and the trunk up to the branching.

14. In the event of a break in the working line, a guard at the security post (insuring smoke diver) is allowed to install a firehose clip, and it must be in front of the entrance to the "breathing zone", at the established place.

15. It is forbidden to block valves of branching at finding of smoke divers in (on) the deck superstructure.

16. If the cutting disc is damaged, it may be replaced. Replacement produces any of the smoke divers (smoke diver at the security post (insuring smoke diver)), the spare disk is on the line "Start". At the same time, the time of the exercise does not stop.

17. In case of a break in the working line, it is allowed to install a firehose clip at the security post, and it must be in front of the entrance to the «breathing zone».

18. Do not remove the fireman's hand protection, unbutton and remove the fireman's helmet.

19. In case of failure of the saw disk, during the performing the exercise, until the opening of the door (opening) and further execution of the exercise is not possible, as the leader of smoke diver team reports to the judge at the stage, the exercise is considered unfulfilled.

20. If at the end of Exercise No. 2 (the completion of filling the target with water) the branch man, the rest of smoke diver team or (and) the branch pipe is located outside of the designated zone, the exercise is failed, the smoke diver team accrued penalty time under the terms of the Exercise.

21. 21. In case of violation of the traffic scheme for one of the elements of Exercise 1 for each smoke diver is charged penalty time according to the Table.

22. In violation of the scheme of movement (smoke diver(s) were not superstructure) at the Exercise 2 - exercise fails and the smoke diver team accrued time in accordance with the terms of the Exercise.

23. If the exercise 2 the victim is not taken out of the deck superstructure, the exercise is considered unfulfilled, smoke diver team charged time according to the conditions of the Exercise.

24. The victim is considered to be laid if all parts of the body lie on the designated place, and it's don't stand for the designated place more than 2/3.

25. In case of the same results, the highest place is awarded to the team whose total age is higher.

26. The elements of structures and equipment can be changed, as the judge brings to the participants before the start of the exercise.

**Table of penalty time charged for violations
conditions of exercises**

№	Violation	Penalty time, sec.
1.	Violation of the preparation time for the exercise.	10
2.	Being in the area of exercise of the delegations without approval from the chief judge of the competition.	60
3.	Other violations smoke diver(s) terms of exercise (for each fact).	15
4.	Violation of order of movement on the stairs (for each fact).	10
5.	Loss of equipment during performing exercises (for each unit).	5
6.	When performing the exercise, the fireman's hand protection equipment was removed, the fireman's helmet was unbuttoned and removed (for each fact).	15
7.	Violation of traffic patterns during exercise (for each fact).	150
8.	Smoke diver(s) made a flagrant violation of the Requirements resulted in injury to the participant(s) of the competition and the impossibility of the further participation it (them) in the competition (for each fact).	300
9.	Start movement of smoke diver(s) into the opening (door) of not placing the saw disk to the designated location before its engine off, the saw disc is pushed (when performing Exercises No. 2) guards on duty security (by insuring smoke diver) (for each fact).	15
10.	The location of smoke diver (smoke diver on duty security (insuring smoke diver)), any part of the body, not behind smoke diver producing cutting, the moving direction of the cutting blade on smoke diver (smoke diver on duty security (insuring smoke diver)) (for each fact).	15
11.	The saw engine runs after all smoke divers of team pass through the doorway or are muffled by the smoke diver at the security post (insuring smoke diver).	30

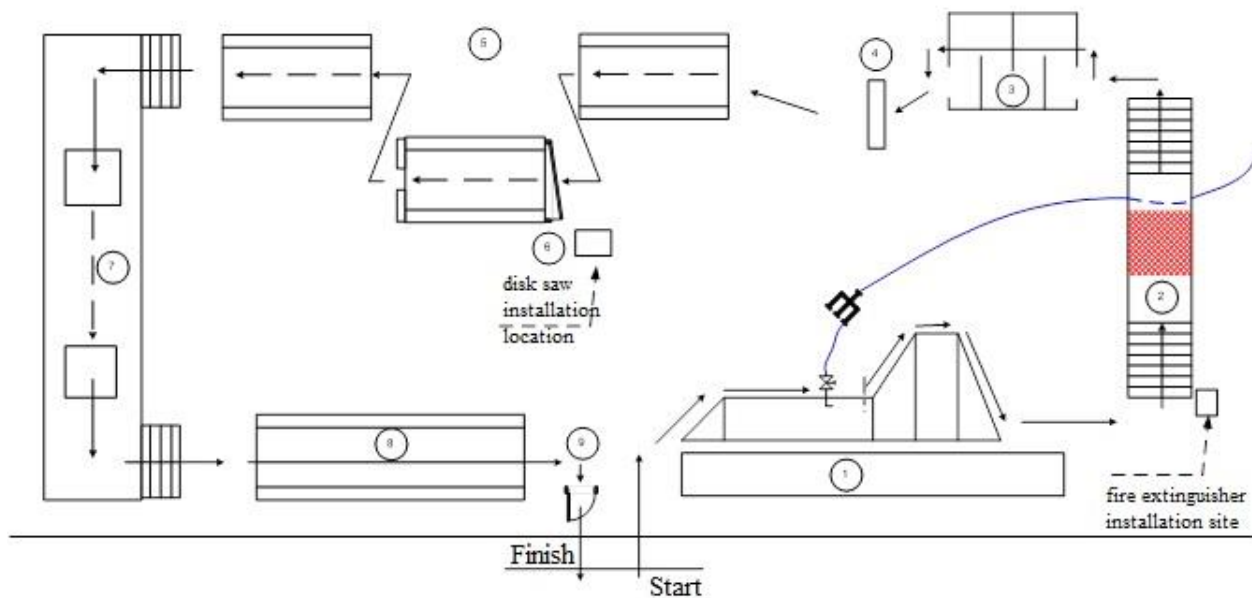
12.	Incapacitation of a mechanized tool, SCBA through the fault of smoke diver.	300
13.	Detachment of the lung demand valve from the mask of the SCBA or SCBA tee (for each fact).	15
Exercise № 1		
14.	The intersection of the control line of the projectile before it passes all smoke divers, to complete closure of the valve (for each fact).	15
15.	Smoke diver started run a saw disk, before the rest of smoke diver team out of the first tunnel.	15
16.	The fall of the fire extinguisher (s) from the platform of the overpass (for each fact).	15
17.	The opening of the doors started to descent all smoke divers on the ground.	30
18.	Breaking the door out of the designated place.	30
19.	Re-ignition of the baking sheet after overcoming the closing smoke diver team projectile № 2 (baking sheet with burning liquid) to the finish line	150
20.	Crossing by smoke diver(s) of the burning of the pan or its suppression is wasn't made in full.	250
21.	Simultaneous extinguishing with two fire extinguishers.	40
22.	When finishing the GSPS link, the valve of the irrigation system is not completely closed.	50
Exercise № 2		
23.	Violation of the conditions of the exercise by the smoke diver on duty security (insuring smoke diver) (for each fact).	15
24.	Smokedivers began to move without checking the presence of water in the line.	30
25.	Violation of the conditions of carrying the victim (for each fact, separately counted penalty time for hanging arms, legs, head).	30
26.	The smoke divers began to move into the "breathable zone" with the firehoses not connected to the hose line, the branch pipe not connected to the three-way branch of the hose line (for each fact).	240
27.	Entrance in the 2nd floor of the superstructure to lift up all smoke divers and smoke diver on duty security (insuring smoke diver) to the site.	30
28.	Smoke diver started run the saw disk before to rise to the 2nd floor of the superstructure.	120
29.	The branch man started elimination of "fire" before "victim" was laid in the designated place, until collection of smoke diver team in full structure (for each fact).	25
30.	Branch man eliminated "fire" during the "victim" was not stowed in designated location.	300
31.	The overlap of the valve of branching when the smoke diver team in (on) deck superstructure.	60

Summing up the competition

Summing up the results of the competition and identifying the winners is made by the lowest total time of all exercises and imposed penalty time.

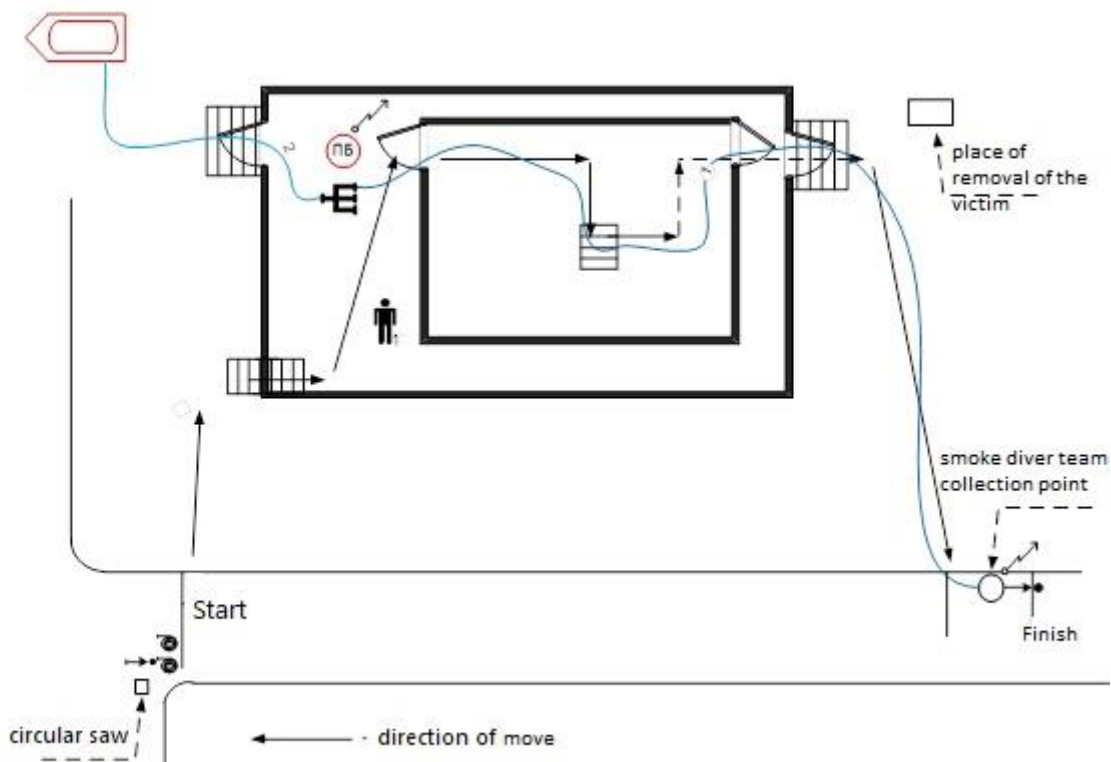
Picture №1

The scheme of passage of the strip of psychological training smoke diver team
Exercise 1



Picture №2

Scheme of exercise №2



**Program
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1. 19September2019:

- 1.1. Check in at the hotel
- 1.2. Acquaintance with elements of exercises, a strip of psychological training, a model of a deck superstructure.
- 1.3. Visiting the sights of St. Petersburg.

2. 20September 2019г.:

- 2.1. 10.30 – opening of competitions;
- 2.2. 11.00 – start of competitions;
- 2.3. 16.30 – endingofcompetitions, summing up the competition;
- 2.4. 17.00 – rewarding of winners and prize-winners of competitions.

3. 21September 2019г.:

- 3.1. Visiting the sights of St. Petersburg.
- 3.2. Check out from the hotel.

Depending on the wishes of the participants and representatives of the teams, this program can be adjusted in agreement with the persons assigned to the teams.