

Emergency Assistance Plan

In an emergency please notify

Contact Information: Name-Phone-Location

- Hospital / Chamber / Clinic / Rescue Squad
- DAN International Emergencies tel : +39 06 42118685
- DAN National Emergencies tel : 800-279-802 (Example)

Example

Emergency equipment available on board vessel(s) / at facility

- DAN O2 rescue pack on vessel(s)
- Extra O2 cylinder at lodge
- DAN first aid kit on vessel(s)
- First aid kit at lodge

Example

Nearest Medical Facility Directions

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Phone Dive Medical Service: _____

Local and nearby resorts or lodges

- _____
- _____
- _____

Local radio channels (See Emergency Radio Communications Guidelines Worksheet)

VHF –

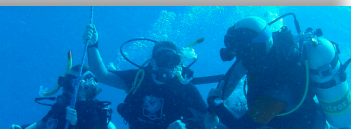
VHF –

Diving Medical Consultation Information

NOTE:

The organisation listed below will provide detailed emergency medical consultation for medical problems unique to diving.

Divers Alert Network (DAN Europe) +39 06 42118685

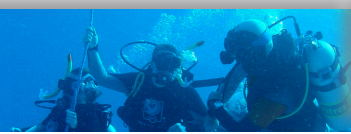


Emergency First Aid Procedures

Below you will find a sample of what may take place during an injured diver emergency. We have also have the DAN Diving Emergencies flow chart (available as a sticker), the DAN Dive Accident Information Slate and the DAN On-Site Neurological Assessment for Divers slate to help the appropriate personal manage the scene.

1. Assess: Airway, Breathing, Circulation
2. Place diver in the appropriate position
3. Provide 100% O₂:
 - a) Breathing patient via demand valve or non-re-breather mask @15Lpm.
 - b) Non-breathing patient administer artificial respiration using a pocket mask @15Lpm, or use advanced Resuscitation materials like a Bag Valve Mask or MTV (if you are trained in it).
4. Conduct a Neurological exam and call DAN to Verify:
 - a) Consciousness,
 - b) Memory,
 - c) Muscle strength,
 - d) Skin sensation,
 - e) Balance and coordination
5. Give conscious divers non-alcoholic, non-caffeinated liquids
6. If trained – give 1000 ml Saline / Ringers Lactate over 60 minutes
7. Record all data:
 - a) Diver's Name;
 - b) DAN Membership No (if applicable)
 - c) Location of the emergency
 - d) Events leading to the diving emergency
 - e) Signs & Symptoms plus onset times
 - f) Treatment given
 - e) Dive Profiles
 - f) Keep diver's gear intact; turn air off; send gear with diver
8. Ensure no other divers are missing or injured

Keep a copy of this information on hand to refer to at all times. The Injury Information Form / Dive Accident Information slate is recommended in the reporting of diving injuries to DAN & medical and emergency personnel.



Lost Diver Prevention

Signaling Devices

All divers will be encouraged to have their own appropriate diver signaling system / signals. All centre dive school BCD's to be equipped with a signaling device (whistle) and a DAN emergency Procedures card fitted in pocket. Dive leader carries two different color safety sausage indicating alternative communications (red – unconscious diver and yellow low on air).

Buddy System

All briefings must focus on emphasizing and improving the function of the buddy system. Violations of the buddy system will not be tolerated. This will be emphasized in all pre-dive briefings.

Immediate Communication

All missing buddy situations must be reported to the dive leader immediately, followed by a prompt response by the dive leader to confirm whether or not the missing diver has been located and is on the dive boat or not.

Prompt Action

Failure to account for any missing person must immediately prompt a formal search which must include aborting the dive; using all local resources to locate the missing diver and; within a period no greater than 20 minutes dispatch or activate the "Missing/Lost Diver Protocol". As emergency and search and rescue services require time to respond, they should be notified as early as possible. In general it is better to cancel a call than to alert emergency services when it is too late to respond effectively. Importantly, if the diver/s are found immediately call off the search / dispatch.

Staff Preparedness

For each staff member a Staff preparedness form is maintained. This form gives info about the First Aid related certifications of the staff member and includes expiry dates of certifications.

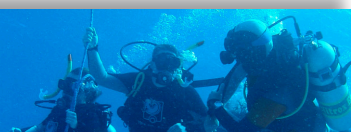
A safety Director, which makes sure the EAP is kept up to date and the established procedures are respected will make sure that staff members undergo re-training before expiry date of their first aid licenses.

The safety Director also makes sure that each staff member receives a copy of the EAP and signs to confirm he knows the content and will act accordingly. The Safety Director will inform all staff members immediately whenever the EAP is updated, respecting the above mentioned procedure.

The EAP will also be made available and is easily accessible also for guest.

A copy/copies of the EAP are located:

- Registration desk (*example*)
- Dive boat (*example*)
- Info wall (*example*)



Emergency Equipment Procedures

Before each dive operation (on daily bases) the Safety Director or a staff member responsible for this part of the EAP will check the following materials:

First Aid Kits for emergency medical assistance

- Appropriate for specific location
- On every vessel
- At land base operational facility

Oxygen

- Appropriate quantity and volume for location
- VIP in the last 12 months
- Hydro test within the last 5 years
- Appropriate regulators for the cylinders in use
- Appropriate masks for the regulators in use
- Demand valve & Tru Fit mask
- Non re-breather mask
- Oronasal Resuscitation mask
- BVM if trained for its use
- Appropriate hoses for the masks in use
- On every vessel
- At land base operational facility

Communications

Radios

- On each diving vessel
- Base location

Cell phones

- On each diving vessel - Minimally, able to reach base of operations.
- Base location

Rescue materials

- Throw lines (example)
- Rescue board (example)
- Nets (example)

AED

- Expiry date electrodes
- Battery
- Status indicator

A form is made available for this purpose where it is indicated when and by who the check are done. These checks are to be done both on the dive boat as on the dive operation on land.

Emergency Equipment is well visible and placed: _____



Dive Safety Guidelines

Pre Dive *Example*

- No dive card no dive
- No diving done within 12 months – compulsory refresher course at an additional charge
- No diving done within 6 months – oral refresher (out of water)
- Maximum depths – according to qualification
- DM/Instructor ratios for students: As per organization standards and procedures is a max of 6 divers per Instructor
- Pre-dive briefing on dive site and dive safety
- On all recreational dives, Dm/Instructors will dive with SMB and delayed surface marker buoys
- All divers participating in Technical dives will carry a delayed surface marker buoy
- Recommended that all divers have a SMB
- Physical Fitness / Medical Fitness / Mental readiness
- Well maintained equipment

Post Dive *Example*

- DM/Instructor and boat captain must account for all divers
- Skipper must radio or telephone lodge/dive centre that Divers have gone into the water – and a confirmation of the time & dive site

Dive Briefing Guidelines

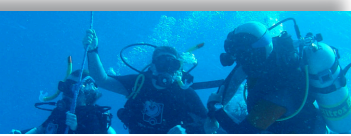
Example

Dive Site Name

- Interesting facts or stories behind the name.
- Reef 1
- Reef 2
- Reef 3
- Reef 4
- Reef 5
- Reef 6

Dive Site Description

- Layout – topography, depth, etc.
- Present conditions (current, visibility, temperature, etc.)
- Points of interest
- Unusual hazards
- Map of dive sites located in both Dive Schools (Displayed)



You're Role

- Where you will be
- What you will be doing
- How to identify you
- How to get your attention

Entry & Exit Procedures

☐ Recommended techniques and locations for entering & exiting water

Dive Procedures

- Recommended maximum depth/time
- Suggested air reserve
- Reminder - make a safety stop and the signs that indicate 100 bars and 50 bars
- Ear equalizing

Emergency Procedures

- Lost diver prevention
- What to do in case of buddy separation
- What to do in case of an emergency
- What to do if low on or out of air
- Recall procedures

Signal Review

- Signals between you and divers

Roster/Buddy Check

- Headcount
- Have those without buddies identify themselves so they can choose buddies between themselves

Environmental Interaction Suggestions

- Local aquatic life to respect/be cautious about – guidelines as per dive centre's Codes of Conduct Scuba Diving
- Interesting local aquatic life
- Remind how to avoid damaging aquatic life
- Local regulations – Marine Protected Area
- Adopt a "Look don't touch" dive ethic

Pre-dive Safety Check

- Remind divers they are responsible for performing their pre-dive safety check
- Confirm divers have checked air



Headcount Procedures

Pre Dive

Launch schedule records the following:

- Dive destination / sites
- Skipper or Dive Captain name
- Dive Instructor name
- Divers' names

Headcount given through to divemaster and skipper before the launch

The boat captain will do a final headcount before the launch.

The boat captain will radio or telephone the lodge with headcount details

Dive

During the dive the Divemaster is responsible for a regular headcount.

Post-dive

The Dive Captain radios or telephones lodge when divers surface after dive and he has done a headcount

On completion of dive, before returning to shore, the dive captain will do a final headcount once divers on board the boat (DAN ID Tag system).

The lodge manager checks with Dive Instructor and skipper to ensure all divers are accounted for (post dive checklist to be signed by divers after dive).

Missing / Lost Diver Protocol

1. Notify Lodge via internal VHF radio channel ? or by cell phone regarding any missing/lost diver(s). All lodge and Management numbers are pre-programmed into each boat mobile phone
Supply lodge Management with as much information as possible:

- Dive location
- Number of missing/lost divers
- Approximate time missing
- Information on sea currents and wind direction

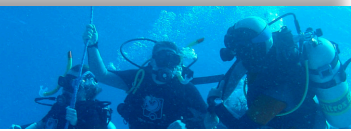
2. Notify all boats closest to you of missing/lost diver(s). If no other boats in close proximity, deploy additional boats from Mnemba Island (example)

Local and nearby charters

?
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Notify Dive Medical Services on _____

IMPORTANT: If the diver(s) are found, immediately call off the search/dispatch!



Dive Boat Safety Guidelines

- One hour of extra fuel on every boat or dive site specific
- Radio & mobile phone contact with dive base and lodge management
- Dive leader's briefing on surfacing times and diver count
- Boat stays mobile and follows SMB or delayed surface marker buoys and dive groups bubbles
- Boat crew will keep a lookout for 2nd group while collecting 1st dive group if appropriate
- First Aid & Oxygen equipment available and medically trained staff onboard

Emergency Radio Communication Guidelines

Distress Signal (Life Threatening Emergencies)

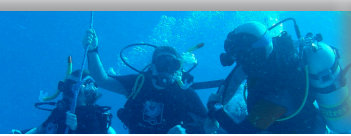
- VHF – channel
- VHF – channel
- Call **MAYDAY, MAYDAY, MAYDAY**
- Give the **name** and **position** of your craft
- State the **nature** of your distress, the number of persons involved and the **kind of assistance** required
- Give any other information to assist the rescue

If there is no response, repeat your distress call and message, particularly during “silence periods” and also on other frequencies

Urgency Signal (Medical Emergencies)

- VHF – channel
- VHF – channel
- Call **MAYDAY**
- Give the **name** and **position** of your craft
- State the **nature** of your distress, the number of persons involved and the **kind of assistance** required
- Give any other information to assist the rescue

If there is no response, repeat your distress call and message, particularly during “silence periods” and also on other frequencies



Dive Briefing Guidelines

Example

SAFETY APPLIANCES AND EQUIPMENT

1	Approved Life-jacket Stinger	One life-jacket per person aboard Ranging from size 80kg -60kg and Children's life-jackets
2	Two approved hand held red distress flares	It is an offence to tamper with expiry dates, besides being very dangerous
3	One approved floating orange smoke marker	
4	One(1) waterproof torch, spare batteries and a spare bulb	ONLY required on vessels operating after sunset – spare batteries and bulb to be kept in a watertight container
5	Hand-held spotlight with own 12V battery	ONLY required on dive boats operating after sunset
6	Code Flag "A"	ONLY required on dive boats
7	Marine VHF radio to be fitted as appropriate to area of operation	VHF to have at least channel 16 and one other working channel 69C
8	Depth sounding device or hand lead line	ONLY to be fitted on dive boats
9	Suitable steering magnetic compass	Compass to be illuminated on vessels operating after sunset
10	Suitable navigation charts for the voyage, or area of operation	
11	Suitable approved fire extinguishers Serviced annually Gavin Ferreira	One per engine
12	Grab-line fitted to outside of gunwale	ONLY on dive boats, except where fitted with a boarding ladder extending into the water
13	Capsize rope for use when vessel is inverted in the water	ONLY for semi-rigid inflatable of less than nine(9) metres in length
14	Suitable sea-anchor	
15	Proper patent anchor and chain, with a suitable length of rope for the area of operation	<i>Length of chain:</i> Vessels of 6m and more - at least 5 metres <i>Length of Rope</i> At least 100 metres
16	Watertight capsize bottle attached to vessel with rope readily accessible in event of capsize	Containing flares, survival and emergency equipment
17	Two (2) space blankets	
18	One (1) litre of drinking water per person	In the Blue Cooler boxes
19	First Aid Kit	Suitable for the vessel's size, complement and intended operation; to the satisfaction of the surveyor or safety officer.
20	Spares	Adequate for the purpose of carrying out emergency repairs to machinery and essential equipment aboard.
21	Tools	Adequate for the purpose of carrying out emergency repairs to machinery and essential equipment aboard
22	Marking of equipment	All life jackets, buoyancy aids, life-buoys, Dan-buoys, flares, oars, paddles and life-rafts are to be permanently marked with the Lodge's name & vessel
23	Navigation lights on new Boats	Fitted in accordance with the International Collision regulations



General Safety Information

1. Boats *Example*

One Semi-rigid inflatable in use:

- 7.2m Dive Duck –
- Second Dive Duck – to come
- Transfer boats
- Old Dive Boat
- New Transfer Boats x 2
- Fiberglass boat x 1

Example

Additional safety equipment and procedures ??????????

- DAN O2 Unit
- DAN First Aid Kit
- DAN Emergency handbook
- DAN Oxygen Provider Flow Chart
- Missing/Lost diver Protocol
- Emergency Radio Communication Guidelines Worksheet
- Emergency Assistance Plan – Lodge Operation
- Emergency First Aid procedure

2. Facility operation *Example*

Safety equipment and procedures

- First Aid kit
- DAN Emergency handbook
- DAN Oxygen Provider Flow Chart
- Missing/Lost diver Protocol
- Emergency Radio Communication Guidelines Worksheet
- Emergency Assistance Plan – Lodge operation
- Emergency First Aid procedure
- Dive briefing guidelines
- Injury & Lost diver prevention
- Information about how to get to Dive Medical Service from lodge at the Hyperbaric Centre at Bandos
- Dive Times with diver names and dive destination

