Acknowledgment

DAN Education would like to thank those individuals who, through their tireless efforts and dedication, have made the development of these training programs a reality. Their actions make a difference in dive safety.

Divers Alert Network America
6 West Colony Place • Durham, NC 27705-5588

DAN America Education +1-919-684-2948 extension 555
DAN Emergency Services +1-919-684-9111
General Information +1-919-684-2948
Membership Information 1-800-446-2671
Fax +1-919-493-3456

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DAN - Your Dive Safety Association

For scuba divers worldwide, DAN means safety, health and peace of mind. DAN is a 501(c)(3) nonprofit dive safety organization and is supported by the world’s largest membership association of divers.

DAN was founded in 1980 to provide an emergency hotline to serve injured recreational divers and the medical personnel who care for them. Originally funded by government grants, today DAN is a nonprofit organization and relies on membership, dive industry support, product sales and fund-raising to provide the high level of service the dive community has become accustomed to receiving.

DAN Mission Statement

DAN helps divers in need with medical emergency assistance and promotes diving safety through research, education, products and services.

Divers Alert Network (DAN) exists to provide expert information and advice consistent with the current medical literature for the benefit of the diving public. DAN’s historical and primary function is to provide emergency medical information and assistance for underwater diving injuries, to work to prevent injuries and to promote diving safety.

DAN promotes and supports underwater diving research and education, particularly as it relates to the improvement of diving safety and to facilitate local physician consultation through our physician referral network.

DAN strives to provide the most accurate, up-to-date and unbiased information on issues of common concern to the diving public and to advocate for divers’ concerns, primarily, but not exclusively, for diving safety.

MEDICINE

DAN 24-Hour Emergency Hotline with Coordinated Insurance Verification

The 24-Hour Emergency Hotline is DAN’s premier service. DAN’s medical staff offers emergency consultation and referral services to injured divers worldwide.

Dive and Travel medical emergencies can happen at any time. Callers to the DAN 24-Hour Emergency Hotline can reach experienced medical professionals who are specially trained to handle dive and travel medical emergencies at any time, day or night. With DAN’s exclusive record-keeping system, DAN Member emergency medical evacuation assistance and dive accident insurance policy records are kept in one central secure location at DAN. As a DAN Member, if you (or your friend, spouse or physician) call DAN’s Hotline with a diving emergency, DAN medical staff can coordinate verification of membership benefits and insurance coverage and make arrangements for timely evacuation and / or recompression treatment.
DAN Medical Information Line
When divers have questions about their health in relation to diving, when they need to find a dive physician in their area, or if they have questions on medications and diving, diving after surgery or other dive-related issues, DAN’s medical staff is there to help.

DAN’s Medical Information Line at +1-919-684-2948 ext 222 is available weekdays from 8:30 a.m.-5 p.m. Eastern Time. On the Medical Information Line, callers may make specific non-emergency medical inquiries. Also, divers can visit the medical pages of the DAN website — www.DAN.org — where they can find answers to general questions on dive fitness and health.

The Medical Information Line and DAN’s website allow divers to communicate with a specially trained dive medical technician about non-emergency dive safety and health concerns. Respondents include DAN medics with the resources of DAN’s senior medical staff, on-call physicians, and medical researchers at one of several affiliated academic institutions. In some cases, DAN may refer callers to a dive medical specialist in their region for further evaluation. The DAN Medical Services department maintains a list of medical doctors who have participated in specialized dive medicine training to which divers can be referred when personal evaluation is necessary.

DAN Recompression Chamber Assistance Program (RCAP)
DAN provides training and support to recompression chambers throughout the Caribbean and other popular dive destinations to ensure that they remain in operation and are properly staffed. This program complements DAN’s semiannual dive medical courses for physicians, nurses and other allied healthcare personnel to educate the international medical community on the proper care and treatment of injured divers.

RESEARCH
DAN Research focuses on health and safety issues important to divers. DAN Research:
- conducts and supports research studies, publishes findings across a spectrum from popular magazines through academic journals
- provides educational lectures to community groups, diving professionals and medical practitioners
- provides an internship training program in diving research
- supports continuing medical education courses in diving medicine for physicians
- maintains a leadership role in related professional organizations
- develops special topics workshops
- develops web-based training materials
- responds to a wide array of information queries from the community and professional groups

Research efforts include epidemiological/surveillance studies, field studies and laboratory studies. Epidemiological/Surveillance studies include the compressed gas and breath-hold incident monitoring programs, the DAN membership health survey, the risk/benefit of patent
foramen ovale closure and additional initiatives involving DAN Medical Services Call Center data and DAN insurance claims data.

Field studies include several long term efforts at sites around the world. Project Dive Exploration (PDE) is a long term commitment to model decompression risk through the capture of computerized dive profile records and safety outcome data. Extreme dive monitoring combines PDE data collection with post-dive ultrasonic monitoring of vascular bubbles of technical dives for which only limited human data are available. A previously completed series of survey and field studies assessed the safety of recreational diving for persons with diabetes.

Laboratory studies include flying after diving, a long term effort underway since 1993, and a recent study of decongestant Sudafed® and oxygen toxicity. New initiatives focus on the assessment of diver physical fitness.

DAN Research projects are funded through DAN membership, public donations and extramural grants. For more information on any of the DAN Research Projects or to participate, please call DAN Research at 1-800-446-2671, +1-919-684-2948 ext. 260 or visit the DAN website at www.DAN.org.

DAN Research Workshops

DAN Research has developed numerous special topics workshops. Two with substantial worldwide impact involve flying after diving and diabetes and recreational diving.

Flying After Diving

The flying after diving workshop was held in 2002 as a culmination of work conducted by DAN since 1993 to assess safety for post-dive flying at cabin altitudes typical of commercial, pressurized aircraft.

The consensus guidelines apply to air dives followed by flights at cabin altitudes of 2,000 to 8,000 feet (610 to 2,438 meters) for divers who do not have symptoms of decompression sickness (DCS). It is also important to note that the recommended preflight surface intervals do not guarantee avoidance of DCS. Longer surface intervals will further reduce DCS risk.

Recognizing these limits, the guidelines state:

- For a single no-decompression dive, a minimum preflight surface interval of 12 hours is suggested.
- For multiple dives per day or multiple days of diving, a minimum preflight surface interval of 18 hours is suggested.
- For dives requiring decompression stops, there is little evidence on which to base a recommendation, and a preflight surface interval substantially longer than 18 hours appears prudent.

The published proceedings of the workshop are available (PDF) for free download. http://www.diversalertnetwork.org/research/projects/fad/workshop/index.asp
**Diabetes and Recreational Diving**

DAN began investigating the question of diving by persons with diabetes in 1993 with a survey of *Alert Diver* readers. The recognition that divers were diving with diabetes, frequently without informing others of their status, led to the development of a multi-year field study of blood glucose response to diving by certified adult divers with diabetes and a smaller study of blood glucose response to diving by novice teenage divers with diabetes. The long term efforts of DAN and collaborating groups from around the world culminated in a 2005 workshop that produced guidelines for recreational diving with diabetes. Key elements of the guidelines included selection and surveillance of diving candidates, the scope of diving and glucose management on the day of diving.

The proceedings of the workshop and summary guidelines are made available to all at no cost. [http://dan.org/research/projects/diabetes/results.asp](http://dan.org/research/projects/diabetes/results.asp)

Recent workshops with continuing impact on the diving community include technical diving (2008) and dive fatalities (2010).

**Diving Accident and Fatalities Reports**

Based on data from dive injuries, fatalities and Project Dive Exploration (PDE) dive data, the diving report is a benchmark in the dive industry. DAN Medicine and Research have published the diving report since 1987. Initially, it was an annual report on compressed gas injuries and fatalities only. It expanded to include the dive profiles from PDE, in which injuries are rare, and to include breath-hold incidents, other-than-air breathing gases and rebreather diving. The report continues to evolve, with the ultimate goal of identifying root causes of accidents to improve understand and reduce future incidents.

Copies of the most recent fatality, injury and dive incident reports are available through DAN Research at 1-800-446-2671 or +1-919-684-2948 ext. 260. Diving Reports from 2001-2007 are available on the DAN website (www.DiversAlertNetwork.org) at no cost to DAN members and have been downloaded by more than 150,000 [UPDATE NUMBER] visitors to the site. Printed copies are available for purchase to both members and nonmembers.

**DAN Research Internship Program**

The DAN Research Internship program was established in 1999. It evolved from an initial focus on expanding Project Dive Exploration data collection to a much more comprehensive mentor-based program to provide professional experience with diving research.

The research internship program is competitive. Candidates apply from colleges, universities and medical schools. Research interns are often able to earn academic credit from their home institutions. Research intern candidates are matched with mentors and research projects best able to ensure appropriate professional development. In addition to hands on involvement with ongoing data collection efforts, attention is focused on the development of critical thinking, technical writing and research publication. The minimum term of commitment is three months, with a typical duration of four months and a maximum of eight months. [http://dan.org/research/projects/intern/index.asp](http://dan.org/research/projects/intern/index.asp)
EDUCATION

DAN strives to provide comprehensive training to the dive community by disseminating the latest information on topics related to diving safety through articles, reports, seminars, lectures and training programs.

Diving First Aid Training Programs

DAN offers five independent and two combination first aid programs and all of which are facilitated internationally by DAN Instructors and Instructor Trainers. The first aid programs carry 24 month certification periods as is standard in the first aid industry. Retraining is required at that time.

Independent Programs:
- Emergency Oxygen for Scuba Diving Injuries
- First Aid for Hazardous Marine Life Injuries
- Neurological Assessment
- Basic Life Support: CPR and First Aid
- Basic Life Support: Health Care Provider
- Diving First Aid for Professional Divers

Combination Programs:
- Dive Emergency Management Provider
- Diving First Aid for the Professional Diver

Full course descriptions are in the General Standards and Procedures section that follows.

DAN Recognition Programs

In conjunction with the first aid programs, DAN offers 4 recognition programs honoring individuals who have sought additional training in order to better understand the diving physiology of dive accidents and to be better prepared.

- Dive Emergency Specialist
- Dive Medicine for Divers Part 1
- Dive Medicine for Divers Part 2
- Dive Medicine for Divers Part 3

In addition to the training recognitions, DAN Education also honors individuals who have used their first aids skills in managing a dive accident through the DAN Provider Recognition.
**DAN Provider Award Program**
The DAN Provider Award program recognizes individuals trained in DAN Provider courses or who use DAN training and/or equipment to help a potentially injured diver. The incident for which an injured individual receives assistance need not be dramatic nor have prevented death or permanent disability. The award recognizes those individuals who provide care and assist an injured individual.

To nominate someone for a DAN Provider Award, photocopy the DAN Provider Award Nomination Form in the appendix section of the DAN Instructor Manual, download the form from the website, or submit a nomination through the online form. Complete the form and return it to DAN Education. Once DAN Education receives and reviews the form, it will issue a certificate recognizing the efforts of the DAN Provider.

**DAN Online Seminars**
These seminars are available on the DAN web site. They are free to DAN members. In addition, the *Diabetes and Diving* seminar is available to the general public. New programs are constantly in development to add to the offerings. Some of the programs have been approved for continuing education credit for Dive Medical Technicians.

**DAN Instructor and Instructor Trainer On-going Training**
In order to assure that the instructional members of DAN have opportunity to stay current on techniques and program changes, updates and ongoing training are part of the DAN Education Mission. Programs are offered in conjunction with both consumer and professional dive shows. Additional sessions are conducted at various points around the country to assure that as many Instructors and Instructor Trainers have access to the updates as possible.

**DAN Education Special Events**
Occasionally special programs with other DAN departments are offered to share information with the diving public in open forums or lectures. These may be conducted in conjunction with other dive events or independently.

**DAN Webinars**
Dive clubs in particular have participated in online webinars allowing location bound groups to link into the resources of DAN. These programs are usually facilitated by the medics in DAN Medical Services.

**DAN Oxygen and AED Grants**
DAN Education awards Rescue Pack oxygen units on a quarterly basis to qualified and accepted grant applications. AEDs are awarded as a matching grant, again quarterly. Application guidelines are available online.
http://dan.org/training/instructors/o2grant.asp
http://dan.org/training/instructors/aedgrant.asp
DAN Continuing Medical Education (CME) Programs
DAN has hosted CME programs since 1983 educating physicians and other health care providers on diving and hyperbaric medicine. Through DAN’s affiliation with numerous institutions involved in diving medicine and treatment of dive injuries, the courses provide cutting-edge medical and research information. Programs are offered twice annually. Regular participation in these programs is one of the criteria for a physician to be listed as part of the DAN Referral Network. All programs are approved through joint sponsorship for AMA PRA Category 1 Credits. http://dan.org/CME/index.asp

Dive Medical Technician (DMT) Certification Programs
In 2003 DAN began offering Dive Medical Technician certification programs. Participants in these programs are frequently diving safety officers with dive teams or tenders associated with hyperbaric chambers. Many are also dive professionals interested in advancing their knowledge of dive medicine so they can better tend to the divers in their care. The program is offered twice annually. Continuing education courses for DMTs are also offered at least once annually. All DMT programs are certified by the National Board of Diving and Hyperbaric Medical Technology. http://dan.org/dmt/
**DAN America Membership Services**

DAN membership supports the activities of the DAN Mission and holds valuable benefits, including emergency travel assistance, a subscription to *Alert Diver* magazine, the *DAN Dive and Travel Medical Guide* and other dive and travel services. Detailed information is available online at [www.dan.org](http://www.dan.org) or by calling DAN Member Services at 800.446.2671 or email diver001@dan.org.

**DAN Website**

A wealth of information is included in the DAN website. Among the website features are:

- answers to frequently asked dive medical questions;
- current projects and past projects with some results;
- news and events as to where a DAN representative will be in the field;
- downloads for individuals who want to participate in research projects;
- searchable database of research papers and abstracts;
- the location of a DAN Industry Partner near you
- My DAN Account (personal log-in required to set-up and access)
- Online training materials and product store

**AlertDiver.com**

This is an online version of the print publication available to the general public. Some content is restricted to members only.

**DAN Dive Accident Insurance and Other Insurance Products**

DAN members are eligible for three different levels in dive accident insurance coverage — the Preferred, Master and Standard Plans. The additional benefits provided by purchasing a dive accident insurance product help fill a medical and financial need unequaled by any other organization.

Since diving often involves travel, DAN also offers a variety of trip and travel insurance programs both for individuals and groups. And although dive accident and trip insurance are the primary insurance products, DAN has other programs for dive equipment (including underwater cameras), group term life and disability insurance.

**DAN Tags and DIDS**

DAN Tag™ is an exclusive product available to DAN members only. Each clip-on tag is personalized with vital membership, medical and contact information in the unlikely event of a diving emergency.
The Diver Identification System, (DIDS), made available by donations from DAN supporters, is a system helping dive leaders track their divers at all open-water sites and on charter boats. The system consists of one or two DAN DIDS Boards each in red or white with 12 numbered DIDS Tags capable of tracking up to 24 divers at the same time. DIDS is available free of charge. To start using the DAN Diver Identification System, call Industry Relations at 1-877-532-6776 or email industrypartner@dan.org. To contribute to this program, call DAN Development at 1-800-446-2671 ext.611 or email development@dan.org

DAN Industry Partner Program

The DAN Industry Partner program is a membership class for dive businesses, clubs, schools, travel providers and professionals who want to show their support for dive safety and education while keeping their customers and students participating actively in the sport of scuba diving.

For a nominal annual fee, Industry Partners receive discount pricing on DAN training materials, safety equipment and selected DAN products. DAN also offers certain products that are only available for purchase through Industry Partners. Periodically, DAN offers additional discounts and sale items through the monthly High Viz newsletter which is sent exclusively to DAN Industry Partners.

Under the Rewards program, DAN Industry Partners earn points by referring their students and customers to join DAN. Points are earned when new members use the Industry Partner’s referral ID number. These points have no expiration date and can be redeemed for cash, used to purchase DAN products (including membership), or donated to DAN. Other incentive programs are available for Industry Partners who sell DAN trip and group travel insurance.

DAN Student Membership Program for Open Water Students

Instructors can provide their students with complementary dive accident insurance that is essential to all open-water students by enrolling them online at www.danismybuddy.com. Students will be enrolled when DAN receives the instructor student roster. Instructors who don’t have access to a computer can call the DAN Industry Relations team at 1-877-532-6776 or email industrypartner@dan.org. Students also have the option of self registration through the same link.

For every student who signs up as a new DAN member using their store or instructor referral number, the referring professional earns 5 points under the new DAN Rewards Program.

To order materials or learn more about the DAN Student Membership program, call 1-877-5DAN PRO (1-877-532-6776)
**DAN Affiliates**

DAN America has primary responsibility for the western hemisphere, including all of the U.S., Canada, Mexico, the Caribbean, Central and South America and various U.S. territories and protectorates throughout the world.

In order to better serve divers in regions outside the U.S. and Canada, DAN has recently established two (2) new affiliates.

- In Brazil, DAN America works closely with Associação DAN Brasil, a Brazilian non-profit organization (www.danbrasil.org.br/).
- In other areas outside the U.S., Canada and Brazil, DAN American has established DAN World (www.danworld.ky/). Both of these organizations offer services and benefits similar to what is available from DAN America.

For information about other DAN organizations located throughout the world, please visit our website at (www.dan.org/contact/international.asp)

Other International Offices include:
- DAN Asia-Pacific
- DAN Europe
- DAN Japan
- DAN Southern Africa

**DAN Development**

Each day Divers Alert Network helps divers in need, prevents scuba diving injuries and works to save lives. *Friends of DAN* donors make a huge impact on all facets of the DAN mission of dive safety. DAN offers many giving opportunities that appeal to divers, dive enthusiasts and non-divers. Unrestricted gifts provide resources that support a variety of initiatives, which are directly related to dive safety. Of course, you may designate your gift for a specific program or initiative.

Financial support from DAN Donors - whether an annual gift, an endowment gift, or a planned gift - is essential to our maintaining the quality of the research, education and medical information services that we strive to provide for the benefit of divers.

If you would like more information or assistance, please contact DAN Development at 1-800-446-2671 or +1-919-684-2948 ext. 611 or email Development@dan.org or on the web at www.DAN.org/appeal.
General Standards and Procedures

DAN Code of Ethics
DAN Instructors, Instructor Trainers and Examiners should:

- Make their courses available to all students regardless of race, gender or beliefs
- Abide by the listed requirements and intent of all courses as published in the Instructor Manual, individual course Instructor Guides and other DAN publications
- Conduct themselves and their DAN-related activities in a professional manner
- Be current DAN Instructors in each course before representing themselves as being able to offer certification in those courses
- Not wrongfully disparage DAN, other DAN Instructors, DAN Instructor Trainers, DAN Examiners, other training organizations or other dive industry professionals
- Be honest
- Assure the safety of their students
- Present all the subject matter necessary for completion of the course
- Personally follow all safe diving principles
- Maintain personal, professional and educational competency in the courses they offer
- Keep informed of developments in dive safety and the dive industry
- Cooperate in a professional inquiry if and when requested by DAN

DAN Pro Membership Designations

DAN Instructor
A dive educator, who is current with their scuba training agency, holds a current CPR instructor certification from DAN or another recognized agency and has completed the DAN Instructor Qualification Course with a DAN Instructor Trainer or Examiner.
**DAN Instructor Trainer**
A qualified DAN Instructor Trainer must:

- be an active teaching status instructor trainer with a recognized scuba diving certification organization.

**OR**
be either an active instructor trainer with a recognized first aid agency **OR** an IDC Staff Instructor (or equivalent) and a current DES Instructor,

- be an active teaching status instructor in a recognized CPR and First Aid Program,

- be a DAN Member,

- successfully complete the Instructor Trainer Workshop (ITW), including the payment of all fees to DAN.

**DAN Examiner**
DAN Examiners are active DAN Instructor Trainers who have been authorized to offer the DAN Instructor Trainer Workshop (ITW) and certify DAN Instructor Trainers. Examiners must attend a DAN Examiner Workshop conducted by DAN Education Department staff. Acceptance into this program is by application only and on a limited basis, subject to approval from DAN Education and DAN Administration.

**Specialty Course Designation**
DAN Instructors, Instructor Trainers, and Examiners may be able to submit their DAN credentials to their respective training agencies or associations and request authorization to offer an instructor specialty recognition along with the DAN certification. DAN training materials are copyrighted, however, DAN Education authorizes DAN Instructors, Instructor Trainers, and Examiners to reproduce those portions of the Instructor or Instructor Trainer Manual necessary for approval of the specialty certification. While it is to the Instructor, Instructor Trainer, and Examiner’s benefit to offer their students “dual” certifications (one from DAN and one from a training agency) it violates DAN standards to gain a secondary credential based on having the DAN certification and then allow that DAN credential to lapse, while continuing to issue the other credential. This is grounds for quality assurance actions through DAN Education.
The Role of the DAN Instructor

The role of the DAN Instructor is to conduct provider level courses in a positive learning experience. At the end of each course, students should feel comfortable and confident in recognizing the signs and symptoms of diving injuries as well as providing first aid to injured divers while activating Emergency Medical Services (EMS) and calling DAN.

To facilitate these goals, the DAN Instructor should:

• Create a positive environment for learning.
• Answer all student questions with empathy and understanding.
• Provide role-model demonstrations of provider skills.
• Emphasize the importance of the Scene Safety Assessment in reducing the risk of injury to the rescuer and disease transmission.
• Encourage self-discovery by allowing students some degree of flexibility in the method of completing a particular skill. There are many ways to accomplish objectives.
• Ensure reasonable performance of Provider skills. Forcing students to perform skills beyond personal limits may lead to a performance breakdown during the skill.
• Use diver-friendly terms such as "injured diver" instead of "patient" or "victim."
• Provide realistic scenarios that allow students to put both knowledge and skills development together in coming to the assistance of an injured diver.
• Have fun with your class as the students learn to help themselves and others.

The Role of the DAN Instructor Trainer

The role of the DAN Instructor Trainer is to conduct the Instructor Qualification Course (IQC) for qualified individuals. The same requirements also apply for a positive learning experience as expected with DAN Instructors for provider level courses. At the end of the IQC, the instructor candidate should feel comfortable and confident in being able to conduct DAN provider level courses. Additional information on becoming a DAN Instructor Trainer is available on the DAN website.

http://dan.org/training.courses/iqc/418-420/DAN_Instructor_Trainer_Workshop

The Role of the DAN Examiner

The role of the DAN Examiner is to conduct Instructor Trainer Workshops (ITW) for qualified individuals. A positive learning experience where the Instructor Trainer candidate feels comfortable and confident in being able to conduct DAN IQC programs applies.

In addition, DAN Instructors, Instructor Trainers and Examiners are expected to be leaders in the diving community. To that end, the DAN Code of Ethics provides a standard of conduct expected of DAN instructors as they interact with DAN, other DAN Pro Members and the dive community in general.
DAN Instructor Requirements

Prerequisites for becoming a DAN Instructor:

- Active status dive educator (dive master/dive controller or above)
- Current CPR instructor
  - Completion of one of DAN’s CPR courses during the Instructor Qualification Course (IQC). meets this requirement

A qualified DAN Instructor has:

- Successfully completed all the training requirements of the IQC including:
  - Core Module (also available online)
  - Mini-Core as an in-class discussion
  - IQC module for each course desired

**Note:** It is possible to receive a waiver for prerequisites on a case-by-case basis to attend the IQC, but there is no waiver or direct transfer process to be certified as a DAN Instructor.

**Instructor Qualification Course (IQC)**

The DAN IQC is the process by which all DAN Instructors are trained and certified to conduct DAN courses. A complete Instructor Qualification Course may refer to a program where instructor candidates learn to conduct multiple courses or it may refer to a specific training program module where a DAN Instructor Trainer or Examiner certifies current DAN Instructors in a new program.

These programs are conducted by independent DAN Instructor Trainers or Examiners who set the prices and the schedules for these programs. The Instructor Trainer or Examiner verifies that the Instructor Candidate has met the requirements to be certified as a DAN Instructor. Every DAN Instructor must attend an IQC taught by a DAN Instructor Trainer or Examiner.

**Maintaining Active Teaching Status as a DAN Instructor**

To maintain active teaching status, DAN Instructors must:

- teach (individually or as part of a team) one provider course for any program they are certified to conduct at least once within 24 months
  - Teaching any one course will maintain active status in all programs an instructor is certified to teach during a 24 month period.
- teach at least one course in each program every 48 months.
  - If a provider course is not taught for any individual program in a 48 month period, that instructor credential will be removed from the instructor’s file. Auditing the IQC module for that course will be required to resume teaching that course.
• submit Provider Course Rosters to DAN Education to receive teaching credit.
  o Rosters must be submitted within 7 days of course completion.

A DAN Instructor who teaches a Dive Emergency Management Provider (DEMP) class should submit a single course roster for the DEMP program. The DAN Instructor will receive credit for teaching all of the component programs.

• maintain DAN Membership and ProMembership.
  o ProMembership is an additional level of DAN Membership.
  o ProMembership is required for an Instructor to remain in Active Status and is billed along with the Instructor’s DAN Membership dues.
  o Failure to submit DAN Membership and/or ProMembership dues when required will result in automatic placement into Inactive Status.

**Note:** Maintaining ProMembership assures the instructor receives *Oxygen Window*, the quarterly newsletter used to communicate with DAN Instructors, Instructor Trainers, and Examiners.

• maintain current CPR and first aid instructor credentials. (DAN BLS: CPR and FA and CPR HCP meet this requirement.)

Only active teaching status DAN Instructors, Instructor Trainers, Examiners, and Business Members may acquire DAN training materials and only for programs they are qualified to offer.

**Sustaining Teaching Status as a DAN Instructor**

Any instructor who has not taught a DAN course in a 24 month period moves into sustaining status. Course rosters from instructors in sustaining status will not be processed or provider certification from such rosters acknowledged.

**Note:** Only active status Instructors, Instructor Trainers, and Examiners can promote themselves on the DAN website or anywhere else.
**Instructor Options to Regain Active Teaching Status**

If it has been **more than 24 months, but less than 48 months** since the Sustaining DAN Instructor last taught a DAN course, there are three options to return to Active Teaching Status.

1. Team-teach the course with an active DAN Instructor, Instructor Trainer, or Examiner and be listed on the course roster as having assisted with the course.

   OR

2. Audit a DAN Instructor Qualification Course, retaking the core module and the module for each course the instructor plans to teach.
   
   a. The Instructor Trainer or Examiner must submit an Instructor Application, identified as an update for the Instructor. All fees and credential requirements such as copies of Active Teaching Status for scuba and CPR certifications still apply.

   OR

3. Attend an Update or participate in an Update program online if one was not completed in the previous 24 months. Please note the exclusions in the following paragraph.

Only one update in a 48 month period may be used to maintain active teaching status. Every instructor is required to teach one of each course they are authorized to conduct during any 48 month period. Any course not conducted in that time frame will be removed from the instructor’s credentials until the IQC module for that program has been repeated. The same requirements for reinstatement of a single program apply as listed immediately below for sustaining instructors who have not taught for 48 months or more.

If it has been **more than 48 months** since a sustaining status DAN Instructor last taught the course in question, the Instructor must audit a DAN Instructor Qualification Course, retaking the core module and the module for each course the instructor plans to teach. The Instructor Trainer or Examiner must submit an Instructor Application, identified as recertification for the Instructor. All fees and credential requirements such as copies of Active Teaching Status certifications still apply.

Regardless of which reinstatement path an instructor takes, once DAN Education verifies that all requirements for active teaching status are met, the DAN Instructor will regain active status.
Diving Emergency Specialist (DES)
Continuing education is an important way for divers to continue to hone their diving skills and improve as divers. Divers Alert Network understands the importance of being an active and involved diver who takes the time to learn about techniques to care for yourself and others injured in a dive accident. To recognize this commitment to dive safety, DAN has created a recognition program called Diving Emergency Specialist. The DES designation is a way to commend divers who have sought out the training they need to be prepared buddies and safer divers.

To earn this recognition, the diver must hold:
- Certification as a Rescue Diver
- DAN DEMP (2012 edition) certification,
or
- DAN Diving First Aid for Professional Divers (2012 edition) certification,

OR
- Certification as a Rescue Diver
- DAN BLS: CPR and FA/CPR HCP course (or equivalent)
- certification in the three stand-alone DAN courses:
  - DAN Emergency Oxygen for Scuba Diving Injuries
  - DAN First Aid for Hazardous Marine Life Injuries
  - DAN Neurological Assessment

This program is open to any qualified diver, regardless of DAN Membership.

To receive this recognition, submit an application directly to DAN Education with photocopies of all the required certifications and the appropriate application fee. DES recognition includes a waterproof Diving Emergency Specialist recognition card and DES certificate.
You can find the most up-to-date version of the DES Application online.

DES Instructor/Instructor Trainer
DAN Instructor and Instructors Trainers can receive the Diving Emergency Specialist (DES) Trainer or Instructor rating with DAN.

To be a DES Instructor you must be an active teaching status DAN Instructor for Emergency Oxygen for Scuba Diving Injuries along with four other DAN courses.

DES Instructor:
- Be certified to teach the DAN BLSFA or the DAN Basic Life Support for Health Care Provider (BLSHCP) programs and
- Have taught at least 8 providers in either the DAN DEMP or Diving First Aid for Professional Divers courses.
- Or be certified in all four stand-alone programs and have taught 8 providers in each course.
**DES Instructor Trainers**

*Must have also certified at least 5 DAN Instructors in four stand-alone DAN programs:*

- DAN BLS: CPR and FA or CPR HCP course
- DAN Oxygen First Aid for Scuba Diving
- DAN First Aid for Hazardous Marine Life Injuries
- DAN Neurological Assessment

*Or*

five (5) DAN Instructors in the Diving First Aid for Professional Divers course.

**To Apply**

Submit to DAN Education

- DAN Diving Emergency Specialist Instructor Application
- Application fee

DAN Education will review the Instructor Application to verify that the applicant has submitted course rosters representing the appropriate number of certifications.
DAN Instructor and Instructor Trainer International Transfers

International DAN organizations around the world have cooperatively developed and provide first aid training for diving as well as other emergencies. Overall, the general content of the programs is consistent. There are differences in some courses from region to region in order to respect the standards and regulations to which each International DAN organization is held accountable. Effort has been made to minimize the differences while maintaining the same level of quality in course offerings but DAN Instructors/Trainers moving from one DAN region to another may find there is a need to adapt to variances in course content and/or structure. A chart comparing DAN courses across regions is on the following pages.

In the event a DAN Pro member transfers to another DAN region, the original regional DAN office plus the DAN office receiving the new instructor will cooperatively assist the instructor/trainer with the transition. Specific details will vary with the regions involved but the similar foundation of all the courses should make the transition easy. Contact your DAN home office to initiate the transfer. If not possible, then contact the new regional office for assistance with the transfer.

Steps to maintain active teaching status for DAN instructors/trainers when working from or moving to a new region:

- **Temporary Residence of less than three months**
  - Notify both your home DAN office and the affiliate office.
  - Purchase training materials from the region where you plan to teach.
  - Send the course roster to both offices.

- **Residence for longer than three months**
  - Request a Training Transfer in the new region.
  - Purchase all provider or instructor-level training materials from the new DAN office.
  - A personal set of instructional materials for courses you can be authorized to teach in the new region will be provided to you by the new DAN office at no or minimal charge.
  - DAN Membership will be granted at the new DAN region and extended until the expiration of your existing membership with your original DAN office.
### International DAN Training Programs

<table>
<thead>
<tr>
<th>America</th>
<th>Asia-Pacific</th>
<th>Europe</th>
<th>Japan</th>
<th>Southern Africa</th>
<th>Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency Oxygen for Scuba Diving Injuries</td>
<td>Oxygen for Diving Accidents</td>
<td>Oxygen First Aid for Scuba Diving Injuries</td>
<td>Oxygen First Aid for Scuba Diving Injuries</td>
<td>Oxygen First Aid for Scuba Diving Injuries</td>
<td>America has combined the Oxygen and Advanced Oxygen courses into one program. Local Laws and regional requirements did not make this possible in some DAN Regions.</td>
</tr>
<tr>
<td>First Aid for Hazardous Marine Life Injuries</td>
<td>First Aid for Hazardous Marine Life Injuries</td>
<td>First Aid for Hazardous Marine Life Injuries</td>
<td>not available</td>
<td>First Aid for Hazardous Marine Life Injuries</td>
<td>Currently some differences occur in skill set but course is primarily the same</td>
</tr>
<tr>
<td>Neurological Assessment</td>
<td>On-Site Neurological Assessment</td>
<td>On-Site Neurological Assessment</td>
<td>not available</td>
<td>On-Site Neurological Assessment</td>
<td></td>
</tr>
<tr>
<td>Basic Life Support: CPR &amp; FA</td>
<td>Provide Basic Emergency Life Support or Perform CPR</td>
<td>Basic Life Support (CPR)</td>
<td>not available</td>
<td>Basic Life Support</td>
<td>America has combined skill sets into one course. Local laws and regional requirements did not make this possible in some other DAN Regions.</td>
</tr>
<tr>
<td>Apply First Aid</td>
<td>First Aid</td>
<td>not available</td>
<td>First Aid</td>
<td></td>
<td>DAN AP course requires more than 6 hours for BLS &amp; FA</td>
</tr>
<tr>
<td>Operate a Semi-Automatic Defibrillator in an Emergency</td>
<td>AED</td>
<td>AED</td>
<td>AED</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apply Advanced First Aid (incl. AED &amp; Adv. Resuscitation Tech.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### International DAN Training Programs (continued)

<table>
<thead>
<tr>
<th>America</th>
<th>Asia-Pacific</th>
<th>Europe</th>
<th>Japan</th>
<th>Southern Africa</th>
<th>Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dive Emergency Management Provider (DEMP)</td>
<td>DEMP</td>
<td>DEMP or Diving First Responder (DFR)</td>
<td>not available</td>
<td>DEMP</td>
<td>Includes: CPR, EO2, HMLI, Neuro</td>
</tr>
<tr>
<td>Dive Medicine for Divers</td>
<td>Dive Medicine for Divers I, II, III</td>
<td>Dive Medicine for Divers I, II, III</td>
<td>not available</td>
<td>Dive Medicine for Divers I, II, III</td>
<td>Programs are identical in all regions</td>
</tr>
<tr>
<td>CPR: HCP</td>
<td>not available</td>
<td>not available</td>
<td>not available</td>
<td>BLS Pro</td>
<td></td>
</tr>
<tr>
<td>Diving First Aid for the Professional Diver</td>
<td>Corso Antincendio Baso Rischio: Oxygen First Aid for Aquatic Injuries</td>
<td>Oxygen First Aid for Aquatic Emergencies</td>
<td></td>
<td></td>
<td>Each program listed this row is a region specific courses</td>
</tr>
</tbody>
</table>
Quality Assurance

DAN Education strives to remain the leader in diving first aid training. As such, the Quality Assurance (QA) process is a tool for maintaining the integrity of DAN Programs. DAN uses the QA process to ensure Trainer and Instructor success. The QA process incorporates adherence to standards, quality of materials, teaching methodology and curriculum. DAN Education will evaluate all levels of training including the Provider course, the Instructor Qualification Course (IQC), the Instructor Trainer Workshop (ITW) and Examiner Workshop.

One stipulation of the DAN Licensing Agreement is that DAN Instructors, Instructor Trainers, and Examiners agree to cooperate fully with any Quality Assurance inquiry. Failure to do so will result in additional action being taken.

DAN Instructors, Instructor Trainers, and Examiners are also expected to assist with maintaining high standards by reporting any witnessed or known violations of DAN Training Programs Standards. Failure to do so is in itself a violation of the DAN Training Programs Standards. Reports made to DAN Education will be held as confidential as possible. Sometimes it may be necessary to waive this based on the nature of the complaint.

Provider Courses

Provider course students should be encouraged to offer feedback using the online survey at http://www.dan.org/education/providersurvey/. This link is also included in every student handbook.

Instructor Qualification Courses and Instructor Trainer Workshops

All candidates participating in IQCs and ITWs will be required to fill out a program feedback form, located in the Appendix of this manual or online at the DAN web-site, after each program runs to allow DAN to critique its programs and process each module flow.
DAN Quality Assurance Decision Tree

Point of Concern Received or Initiated by DAN Training

Review History

- Standards
  - Interview Trainer/Instructor
    - Interview Student
      - Unfounded and Closed
      - Initiate Detailed Surveys
        - Referral to QA Committee or Decision and Action by Training Department
          - Action Closed
        - Referral to QA Committee or Decision and Action by Training Department
          - QA Committee
            - Communicate with Trainer/Instructor
              - Action Closed
      - Action Closed
  - Administrative Issue
    - New or Unusual Problem
    - Repeat Issue
      - Communicate with Trainer/Instructor
        - Action Closed
Terminology
The following descriptions and requirements apply to and are used throughout DAN Training Program Instructor Guides and Student Handbooks:

1. **Injured diver**: DAN uses “injured diver” rather than “victim” in DAN Training programs to refer to divers injured while engaged in diving-related activities. This includes everything from ear injuries to run-ins with jellyfish to decompression illness. This term is important because it can help de-stigmatize dive injuries.

2. **Victim and patient**: In the Basic Life Support: CPR and First Aid and the CPR Healthcare Provider courses, DAN uses the more traditional terms “victim” and “patient.” Cardiac arrest isn’t a dive injury. The diver may have had the same experience walking down the street.

3. **Provider**: A provider is any student who successfully completes any of the DAN courses. For example, there are First Aid for Hazardous Marine Life Injury Providers and Emergency Oxygen for Scuba Diving Injury Providers.

4. **Course**: Refers to the student-level course where students learn their skills. Courses are offered by DAN Instructors.

5. **Module**: In the Modular Instructor Qualification Course, there are modules that cover each Training Program. Instructor Candidates will take the Core Module and additional Course Modules that certify them to offer the provider-level course of each DAN Training Program.
   It is possible to receive a prerequisites waiver on a case-by-case basis to attend the IQC, but there is no waiver or direct transfer process to be certified as a DAN Instructor. Every DAN Instructor must attend an IQC taught by a DAN Instructor Trainer or Examiner.

6. **Program**: The overall program, such as Emergency Oxygen for Scuba Diving Injuries is a Training Program. Training Programs include the student level course as well as the Instructor and Instructor Trainer level modules.

7. **Instructor Qualification Course (IQC)**: The DAN IQC is the process by which all DAN Instructors are trained and certified to conduct DAN courses. A complete Instructor Qualification Course may refer to a program where instructor candidates learn to conduct multiple courses. Or it may refer to a specific training program module where a DAN Instructor Trainer certifies current DAN Instructors in a new program. These programs are conducted by independent DAN Instructor Trainers who set the prices and the schedules for these programs. The Trainer verifies that the Instructor Candidate has met the requirements to be certified as a DAN Instructor.
8. **Instructor Trainer Workshop (ITW):** The ITW is a program where qualified individuals are trained to conduct the IQC and certify DAN Instructors. It may refer to an entire program where multiple courses are taught, or a specific training program ITW where a DAN Instructor Trainer receives a certification in a new program.

*A note about the use of gender in this manual:* While DAN Education has made every effort to minimize gender specific references, to avoid difficult language constructions, we have occasionally used “he” in reference to a singular person.
Standards for Conducting DAN Provider Courses

DAN Provider Courses may only be taught by a qualified and active DAN Instructors credentialed to teach the specific course.

Specific standards for each individual program are addressed in the course specific standards section of that Training Program’s Instructor Guide. What follows are general guidelines that apply to all DAN Provider courses. Use this section in conjunction with the individual course Instructor Guide. In addition, a step by step guide on Teaching DAN Provider Courses is available in the Appendix.

Prerequisites for DAN Provider Courses

There is no minimum age to participate in DAN Training Programs. DAN Education suggests that those with junior diver certification participate in DAN courses with their adult buddies. Some regions may have minimum age stipulations for the use of emergency oxygen and Automated External Defibrillators (AEDs). Instructors must verify state and local regulations to ensure any minimum age for course participation is met prior to student enrollment.

SCUBA diving certification is not required to participate in provider level courses. Non-diving friends and family who may be present during diving activities are encouraged to participate in DAN first aid courses to be prepared to assist in the event of a diving accident/emergency.

Completion of DAN BLS: CPR and FA or CPR HCP or certification in full cardiopulmonary resuscitation (CPR) from a recognized training organization is recommended for all DAN Training programs and is required for the Emergency Oxygen for Scuba Diving Injuries course.

DAN Administrative Forms

For each DAN provider course, participants must complete a course registration form and the Statement of Understanding. These forms are included in the hard copy of student handbooks. For students using an electronic copy of the student handbook, forms are available for download from the Instructors Only section of the DAN website. These forms must be maintained in your files for seven years or longer if required by local jurisdiction. Do not send these forms to DAN.

Course Materials

The DAN Student Handbook for each course is required to fulfill training requirements. Each DAN Provider must have their own personal hard copy or electronic version of the Student Handbook for use during all course work whether online or in class and for reference after course completion.
In addition to the Student Handbook, each course has an Instructor Guide with specifics on teaching that particular course. The Instructor electronic files (removable data storage device) contain the course instructional video plus additional video files for general use.

All courses have an online knowledge development segment that can be used for independent study by the student before coming to class. Links are included inside the Student Handbook.

Only Active teaching status DAN Instructors, Instructor Trainers and Business Members may acquire DAN Instructor Materials and only for programs they are qualified to offer.

**DAN Provider Certifications**

Certification cards are issued to individuals who have successfully completed any provider course. Successful completion includes participating in knowledge development sessions (in class or online), performance of all skills included in the course and passing the written assessment.

**Note:** Provider certificates and cards may be required to fill medical oxygen cylinders. National, regional and local laws may vary.

All DAN Provider cards are valid for two years (24 months). Since first aid skills deteriorate at variable rates, providers must receive retraining to stay current.

**Issuing Certifications**

Certifications are issued based on course rosters the instructor submits. Rosters are to list all individuals who have successfully completed the course requirements.

Complete the **Course Roster** and submit to DAN Education within 7 business days following course completion. Certification cards will be mailed to providers (unless otherwise directed by the instructor) once the roster has been received and processed. There is a $5 charge per student at the time of roster submission to cover the card and mailing.

Course rosters may be submitted online, by fax, or by ground mail. The preferred method of submitting a course roster is the Online Roster. The link is available in the Instructors Only section of the DAN web site. DAN Education will send the DAN Instructor an electronic confirmation of receipt of the electronic DAN Provider Course Roster.
Instructor-to-Student Ratios and Qualified Assistants

Knowledge Development
A DAN Instructor must be present and in control of the class at all times. There is no maximum ratio during the knowledge development portion of DAN Provider courses but class size during the knowledge development session should reflect the instructor's ability to maintain control of the class.

Skill Development Sessions
Maximum student-to-instructor ratio during skills development session is 12:1. The number of students may be increased by six course participants for the first qualified assistant (identified below) and by three course participants for the second qualified assistant to a maximum of 21 students.

Qualified assistants may be used to increase the number of students per class:
- Instructor: 12:1
  1. Qualified Assistant: 18:2
  2. Qualified Assistants: 21:3

The number of participants in a Provider skills development session, regardless of the number or combination of DAN Instructors and qualified assistants present, must not exceed 21.

A Qualified Assistant has completed the DAN Provider course in question and is currently qualified at the leadership level in diver education, first aid/CPR or has an equivalent combination of training and experience (e.g., a practicing healthcare professional). Qualified Assistants must be experienced in the evaluation of students during training activities.

Note: Qualified Assistants are registered in the DAN Education database as if they actually taught a course, so there is no need to divide students on course rosters between the various instructors who may participate in a program. Simply identify one Instructor as the Primary and the others as assistants. Each Instructor will receive full student count credit toward maintaining Active Teaching Status.
Equipment Standards

Equipment Configuration Standards
Please see each individual course Instructor Guide’s Standards Overview for equipment requirements. Each DAN Program has its own equipment requirements, but the following defines minimum requirements.

**Oxygen Equipment**
The oxygen delivery system used must be a DAN oxygen system or equivalent and consist of:
- an oxygen cylinder
- oxygen cylinder valve
- medical grade or higher oxygen
- multifunction regulator (capable of delivering at least 15 lpm)
- demand inhalator valve or MTV (manually triggered ventilator valve)
- oronasal masks

DAN Instructors may use non-DAN oxygen delivery systems as long as they have the same features and functions as the DAN oxygen unit. Course participants are still responsible for the DAN oxygen unit information as found in the student workbook and on the examination.

All compressed gases, cylinders, and components must be handled in strict compliance with the standards of DAN, the Compressed Gas Association (CGA), the United States Department of Transportation (DOT), Transport Canada (TC) or other local agencies or associations. At no time will the DAN Instructor violate any known law or regulation to conduct the course.

**Automated External Defibrillators**
The automated external defibrillator (AED) used in teaching DAN courses must be a training version of an automatic or semi-automatic external defibrillator approved for use by the Food and Drug Administration (FDA) in the United States or other similar authority in the country where the program is being taught. Live units with a training mode may be utilized once converted to the training mode. No other methods of training in the use of AEDs are acceptable.

In conducting any DAN Provider Courses, the DAN Instructor will not knowingly violate any known law or regulation.

**Student-to-Equipment Ratios**
Equipment to student ratios are applied through all DAN courses.

*Maximum students allowed to manikins, AEDs, and Oxygen Units is 6:1*

A *ratio of 3:1 is preferred* to maximize student participation and facilitate timeliness of skill practice sessions.
Teaching DAN Provider Classes

BEFORE THE COURSE

1. Prepare a **budget and fair price** structure for the course. DAN Instructors should determine appropriate course fees that will provide the greatest benefit to the diving community.

2. Make sure that you have **all materials and equipment required** to teach the program.
   a. Order course materials.
      i. Every student must have their own copy of the student handbook.
   b. Each DAN Provider student must have an oronasal resuscitation mask for use during courses where one is used.
      i. Oronasal masks may be provided to the student to keep (recommended) or the instructor may provide masks that have been cleaned for reuse between classes. One-way valves for oronasal masks can be purchased from DAN.

   **Note:** DAN recommends providing students with oronasal resuscitation masks with supplemental oxygen inlets to keep at the end of class rather than cleaning and reusing them. This gives students the tools to respond in the event of an emergency.

   c. Each DAN Oxygen Provider student must have a non-rebreather mask.
      i. A non-rebreather mask is a disposable, one-time use medical device that cannot be cleaned and must not be shared between students. Students may choose to keep their own non-rebreather mask for future use.

3. Review ratios:
   a. Maximum student-to-Instructor ratio is 12:1. Additional students may be added with the use of certified assistants to a maximum of 21 students.
   b. Maximum student-to-CPR manikin ratio is 6:1. (Recommended 3:1)
   c. Maximum student-to-oxygen training unit ratio is 6:1. (Recommended 3:1)

   **Note:** Reserve training rental units in advance if you will need them to conduct courses. Rental AED Trainers and Oxygen Regulator Units are available. DAN Rental Training Units are only available to DAN Instructors residing within the continental United States of America.

4. If oronasal resuscitation masks are reused, prepare two **wash basins to clean masks** between student use. The first basin should be a bleach solution with a concentration of approximately 1:10 (1/4 cup of bleach in one gallon of water or 60 milliliters of bleach in 4 liters of water) and a second basin with water. Have paper towels or other drying devices available.
AT THE BEGINNING OF THE COURSE

5. Introduce staff.

6. Complete administrative forms (keep these form in your files for seven years or longer if required by local jurisdiction)
   - Registration form
   - Statement of Understanding

7. All course participants should be encouraged to become DAN Members. Completed DAN Membership applications that are collected by the DAN Instructor must be immediately forwarded to DAN. Failure to send these applications to DAN promptly may deprive the diver of DAN Membership benefits in the unlikely event of a medical or diving emergency. It is recommended that course participants either call DAN, visit the website or mail the application directly to DAN to join.

CONDUCTING THE COURSE

8. Conduct the course as outlined in the DAN Instructor Guide for each specific course. Each individual course Instructor Guide contains specifics for conducting that course. This manual provides a general overview for conducting DAN programs and should be used in conjunction with the course specific manuals.

9. Knowledge Development
   - The options for completing the Knowledge Development of each portion include:
     - Student completion of the Online Knowledge Development (The link for the specific course is included in the front of the student handbook for each course. The student handbook should be available for reference during completion of the online module.)
     - Presentation of the course video followed by discussion in class (on the instructor DVD)
   - Have student complete Knowledge Reviews before arrival for in class review.

10. Skill Development

    Note: Have students wash hands before beginning skills practice
    Note: Post “No Smoking” and “Oxygen in Use” signs (see appendix for sign templates). Any local laws or regulations must be followed.

    - Introduce the skill (listed at the top of each skill page in the Instructor Guide)
      - Name of skill
      - Objective
      - Motivation
• Provide a role model, real time demonstration
  o The only speaking during this demonstration is what would be said during actual skill delivery
  o Demonstration should reflect deliberate action with a controlled sense of urgency
• Provide talk through demonstration (two options)
  o Repeat the skill in its entirety using stop-action to emphasize key elements of the skill through explanation and discussion
  OR
  o Explain the key elements of the skill emphasizing proper technique
• Divide class into practice groups (preferably groups of three)
  o One rescuer, one coach, the other to either act as injured diver or assistant
    ▪ Rescuer – delivers skill by listening to the prompts of the coach
    ▪ Coach – uses skill slate to read steps in providing skill
    ▪ Injured diver – role plays a simulated injured diver who receives the skill care
      OR
    ▪ Assistant – provides additional services that may be required (gathering equipment, acting a second rescuer, etc)
  o Read scenario provided to guide group practice.
  o Group rotates to allow each group member to assume each role
    ▪ Every student must complete each skill successfully
  o Circulate between groups providing feedback and offering support and/or correction as may be needed for competent skill development
• Debrief skill
  o Congratulate the class on skill specific elements completed well
  o Provide reminders for improvement of weak areas during skill practice
  o Review Key elements of skill as may be required for comprehension

Note: Repeat this sequence for each skill in the course

Note: Encourage students to ask questions, support each other in learning, and seek instructor assistance if difficulties are experienced.

11. Evaluate all course participants with a written or oral examination.
  o Passing scores are 80%; ensure 100% comprehension by reviewing any missed questions
AT THE END OF THE COURSE

12. Complete the **Course Roster** and promptly forward to DAN Education within 7 business days following the course completion.
   a. The preferred method of submitting a course roster is the Online Roster.
   b. The link is available in the Instructors Only section of the DAN web site.
   c. DAN Education will send the DAN Instructor an electronic confirmation of receipt of the electronic DAN Provider Course Roster.

**Note:** Other options to submit a course roster with typed or legibly written names and addresses of all successful course participants include:
- Scan and submit by e-mail to oxygen@diversalertnetwork.org
- Fax to 919-493-3456
- Ground mail to
  
  DAN Education  
  6 West Colony Place  
  Durham, NC 27705-5588

**Note:** Large format completion certificates are available in the Instructors Only section of the DAN website. These large certificates are required for US Coast Guard course approval.

13. Counsel any unsuccessful participants, so they may complete the requirements for DAN Provider at the earliest possible time.

AFTER THE COURSE

14. Course participants should **complete the Course Evaluation** available online.

15. Clean manikins and oronasal masks that are being reused.
   - To clean masks, prepare two wash basins. The first basin should be a bleach solution with a concentration of approximately 1:10 (1/4 cup of bleach in one gallon of water or 60 milliliters of bleach in 4 liters of water) and a second basin with water. Allow to air dry.
   - To clean manikins, remove faces (if applicable) and clean using the same procedures as for the oronasal masks or follow manufacturer's recommendations. Replace manikin lungs.
RECORDS REMINDER

16. Instructors must retain course records, including:
   a. the DAN Provider Registration Form,
   b. Statement of Understanding,
   c. Practical Evaluation Record
   d. Exam Answer Sheet.

These records should NOT be forwarded to DAN Education. The DAN Instructor should keep these files as long as specified by the instructor's training association, local regulations or for seven years, whichever is longer.
Retraining in DAN Courses

Retraining is available to DAN Providers who have previously attended a course to refresh knowledge and skills. Retraining in all certification courses is required every two years (24 months). See Appendix for Steps for a Recertification Course.

Each Provider must have the most recent edition of the Student Handbook for that program. The DAN Instructor must submit the Course Roster with the appropriate fee ($5 US per card). Upon receipt, DAN Education will issue a personal certification card dated with the course completion date. Cards will be mailed directly to the student unless otherwise directed.

Steps for a Recertification course;

1. Student views the course video  
or  
Completess the online knowledge development (Contact DAN Education to have this reset if necessary)

2. Student must complete a new Registration Form and Statement of Understanding (Available for download from the Instructors Only Section of the DAN website.)

3. Instructor reviews the student handbook and chapter quick reviews with the student.

4. Skills Practice is completed using the same format as noted above in Teaching DAN Provider Courses

5. All skills must be completed and evaluated by the instructor

6. Pass the written evaluation.

7. 80% is required to pass

8. Review any missed questions for 100% comprehension

The same record retention requirements apply for recertification course as for initial certifications. Copies of the Statement of Understanding are available for download from the Instructors Only section of the DAN website.
Replacement Provider/Instructor/Instructor Trainer Card and Certificate Procedures

Replacement Provider Card and Certificate Procedures
Replacement Provider Wallet Cards and/or Wall Certificates for those lost, stolen or damaged are available from DAN Education for a $5 replacement fee. Certification will be verified using the course roster submitted by the instructor.

Replacement Instructor/Instructor Trainer Card and Certificate Procedures
Replacement Instructor and Instructor Trainer Cards for those lost, stolen, or damaged are available from DAN Education for a $5 replacement fee. Replacement Wall Certificates will be provided upon request at no charge.
DAN Education Training Programs

All DAN courses are written to meet the Guidelines for Resuscitation as released by the International Liaison Council on Resuscitation (ILCOR) and the American Heart Association in October 2010.

Course Descriptions

**Emergency Oxygen for Scuba Diving Injuries** represents entry-level training to educate the general diving (and qualified non-diving) public to better recognize possible dive-related injuries and to provide emergency oxygen first aid while activating the local emergency medical services (EMS) and/or arranging for evacuation to the nearest available medical facility. Providers learn to use the demand inhalator valve, non-rebreather mask, manually triggered ventilator and a bag-valve mask (BVM).

**First Aid for Hazardous Marine Life Injuries** represents entry-level training designed to educate the general diving (and qualified non-diving) public to identify hazardous marine life, to recognize possible injuries caused by hazardous marine life, to provide first aid for hazardous marine life injuries and to avoid hazardous marine life injuries.

**Neurological Assessment** provider program is designed to help providers understand when it is appropriate to conduct a neurological assessment and how to conduct that assessment. The information gathered while performing a neurological assessment will be useful to help physicians understand the extent of the injury and how it may have changed in the time it took to get the individual into definitive care.

**Basic Life Support: CPR and First Aid** includes one rescuer cardiopulmonary resuscitation, the use of AEDs, and caring for a choking patient. The First Aid (FA) portion of this program includes key skills such as illness and injury assessments, managing shock, controlling bleeding, bandaging and splinting plus handling medical and environmental emergencies.

**Diving Emergency Management Provider** program is an integrated course to train divers to respond to dive emergencies. It is a streamlined method of presenting the knowledge and skills from Basic Life Support: CPR and First Aid, Emergency Oxygen for Scuba Diving Injuries, First Aid for Hazardous Marine Life Injuries and Neurological Assessment courses.

**CPR Healthcare Provider** is for dive professionals and divers interested in more advanced CPR techniques, including basic life support skills for Adults, Children and Infants.
**Diving First Aid for the Professional Diver** is intended for divers who are required to have blood-borne pathogen, first aid, CPR and oxygen first aid training prior to diving as part of their job responsibilities. Dive Professionals are also encouraged to complete this course. It combines the key skills of CPR and first aid training with the DAN Emergency Oxygen for Scuba Diving Injuries, First Aid for Hazardous Marine Life Injuries and Neurological Assessment courses. There is a Spinal Immobilization Module that can be added to the program, if the employer so directs.

**DAN Education Recognition Programs**

**Diving Emergency Specialist** recognition program was created to recognize a commitment to dive safety. The DES designation is a way to commend divers who have sought out the training they need to be prepared buddies and safer divers through rescue training and dive specific first aid.

**Dive Medicine for Divers Part 1**
This educational program represents advanced knowledge development for divers interested in better understanding diving medicine and dive safety. It includes topics on Fitness to Dive, Safety Planning, Basic Physical Examinations, and it incorporates the DAN Diving Emergency Management Provider.

**Dive Medicine for Divers Part 2**
This program represents advanced knowledge development for divers interested in better understanding diving medical and safety topics. It includes topics on Decompression Illness, Barotrauma and Equipment Issues along with case history discussions that encourage understanding of symptom recognition and a worksheet to send with an injured diver in the event of an accident. There is also an instructor-led topic on severe allergic reactions, how to use an EpiPen® in the event of an emergency and how to take a blood pressure.

**Dive Medicine for Divers Part 3**
This program represents advanced knowledge development for divers interested in better understanding diving medical and safety topics. It includes topics on gas toxicities, the causes and mechanisms of drowning and the use of an otoscope for examining a diver's ears. There are also instructor-led topics on calculating partial pressures of gases, the causes of drowning for divers, and legal issues with providing care in an emergency.
Questions?
DAN Education staff is available during regular business hours Eastern Time to assist you with questions or other support as may be needed. Contact DAN Education by phone at 800-446-2671 ext 555 or e-mail at oxygen@dan.org

Best of success with your DAN Instructor rating.
Dive Emergency Management Provider (DEMP)

Standards and Procedures
This Instructor Guide is for use by DAN Instructors who are authorized by DAN to conduct the DAN Basic Life Support: CPR and First Aid, Emergency Oxygen for Scuba Diving Injuries, First Aid for Hazardous Marine Injuries, and Neurological Assessment courses. This combination of credentials allows the DAN Instructor to offer the Dive Emergency Management Provider certification to provider students. There is not a DEMP Instructor certification.

This Instructor Guide is to be used in conjunction with the DAN Instructor Manual. The General Standards and Procedures Section of the Instructor Manual will provide general course guidelines, equipment configuration descriptions, and ratios. Additional information on teaching DAN courses is available in the Appendix of the DAN instructor Manual.

Anyone (divers or non-divers) who might come in contact with divers or diving related injuries is encouraged to participate in this course. It is written to meet guidelines of the Guidelines for Resuscitation as released by the International Liaison Council on Resuscitation (ILCOR)/American Heart Association (AHA) in October 2010 and the U.S. Occupational Safety and Health Administration (OSHA).

Overview
The DAN Diving Emergency Management Provider course teaches participants to recognize common presentations of dive injuries and how to provide emergency first aid for these situations. This course is specifically designed as lay provider training.

A CPR component is required at the beginning of the course sequence. Students who already have a current CPR provider certification may use it in place of the DAN BLS: CPR and First Aid. However BLS: CPR & FA is the preferred CPR course. A student taking the course who already holds a CPR provider certification is to be taken through a CPR review to verify competent technique. They should also complete the BLS: CPR & FA final exam.

Since issuing a DEMP certification will essentially reset their CPR certification, the instructor is expected to verify skill competency via a performance review and knowledge base with the exam.

Scenarios included in each skill are suggestions only and may be altered to more closely reflect the diving environment in the location where the course is being conducted.

The time needed to teach the course varies and depends on many factors including the number of students and their ability to process the educational components of the program. Instructors who want to include subjects or training beyond the course
requirements may do so only before or following the course. Any additional training must not be required for completion of course requirements.

Conducting the DEMP course
Utilizing the DEMP Instructor audio-visual materials will facilitate the course sequence. Skills from each component course are included in DEMP but skills contained in multiple courses are only conducted once. The skill sequence and location in the course is included in the DEMP student handbook.

Skills Sequence for DEMP
BLS: CPR & First Aid
   Scene Safety Assessment
   Gloves
   Initial Assessment
   CPR
   AED
   Foreign Body Airway Obstruction
   Recovery Position
   Secondary Assessment
Emergency Oxygen for Scuba Diving Injuries
   Oxygen Equipment Identification, Disassembly and Assembly
   Demand Inhalator Valve
   Non-rebreather Mask
   Bag Valve Mask
   Manually Triggered Ventilator
Neurological Assessment
   F-A-S-T
   History
   Vital Signs
   Mental Function
   Cranial Nerves
   Motor Strength
   Coordination and Balance
First Aid for Hazardous Marine Life Injuries
   Shock Management
   Control of External Bleeding
   Severe Allergic Reaction
   Injury Management
   Pressure Immobilization Technique
Emergency Assistance Plan
Knowledge Assessment
Abridged versions of the individual course final assessments are compiled in a single exam for DEMP. This exam can be found with the instructor materials on the DEMP USB or downloaded from online.

Conduct Final Scenarios
Once the students have completed all components of the DEMP program, conduct skill practice with a final scenario that encompasses all aspects of the program. You may create your own, just remember to make it realistic -- not too difficult, but not too simplistic either. The point of these scenarios is to help the diver realize that all of these skills work together and simply treating one situation may neglect others. Suggested scenarios are on the following pages.

Following the Final Scenario
• Remediate skills or examinations as necessary.
• Issue student recognition materials to successful candidates of the Diving Emergency Management Provider Program.
• Remind students retraining in all components are required within 24 months. Repeating the DEMP course will meet this requirement.
**Suggested DEMP Scenarios**

**One**

You have just completed a boat dive when you see a diver surface quickly. He is holding his hands together above his head. Immediately upon surfacing, he spits out his regulator and yells to the boat that he had been bitten by a moray eel and is bleeding.

**Student Action:** SAFE and control bleeding.

While treating for blood loss, the diver tells you he panicked and swam for the surface as hard as he could. Now he doesn’t feel so good.

**Student Action:** Administer oxygen by demand valve and alert EMS.

The first diver’s buddy tells you he chased the first diver to the surface and now he doesn’t feel so good.

**Student Action:** Conduct a neurological assessment. Administer oxygen to the second diver using the non-rebreather mask.

The first diver rapidly loses consciousness and stops breathing.

**Student Action:** Initiate CPR using the MTV-100 or the bag valve mask and the AED.

**Variations:** The scenario works just as well if the diver didn’t panic, but has an allergic reaction to an envenomation. Or you can easily set up a scenario that involves three of the four situations; they do not all have to be present in every scenario.

**Two**

You are preparing to enter the water when a diver pops quickly to the surface near your boat. After surfacing, he is floating motionless.

**Student Action:** SAFE, retrieve injured diver from water. Check for unresponsiveness

Diver is unresponsive

**Student Action:** Call for help, initiate CPR while waiting for emergency equipment

Oxygen unit and first aid kit. Oxygen kit has a MTV.

**Student Action:** A second rescuer assists by providing ventilation using the manual trigger valve regulator or the bag valve mask.

AED is also available

**Student Action:** Turn on the AED and follow the prompts.
Three
You have enjoyed a relaxing night dive. As you and your buddy complete your safety stop, your buddy begins rubbing his bare arms. After exiting the water, your buddy states he thinks he was stung by something. You can see red streaks on his arm, and what appears to be tentacles adjacent to red streaks.
Student Action: SAFE. Retrieve first aid supplies and don gloves. Soak victim’s arm with vinegar for 30 minutes. Remove tentacles with tweezers. Treat with heat, pain medications as necessary.

Four
As you are relaxing on the boat during your surface interval, another buddy pair surfaces adjacent to the boat with Buddy 1 clinging to Buddy 2. Buddy 2 says Buddy 1 was having trouble with his buoyancy, and ascended “pretty fast”. Buddy 1 is conscious, his skin is pale, and he appears to be struggling to breathe. He is unable to talk because of his difficulty breathing. He is spitting up blood.
Student Action: SAFE. Call for help. Initiate emergency oxygen. Place injured diver in position of comfort.

Five
You are with a group wreck diving in rough seas. The exit ladder is bouncing, and difficult to ascend. As other divers exit the water, one diver is tossed from the ladder to the deck, catching herself on her hands. She cries out, and immediately grabs her wrist, which is swelling and appears deformed.
Student Action: SAFE. Assess the injured wrist. Splint the wrist with available materials. Use your imagination for splinting materials.

Six
As you and your buddy wade out of moderate surf over a rocky shore, your buddy is knocked to his knees by a wave. He has abrasions across both hands from the rocks
Student Action: SAFE. Assess for bleeding. Wash the abrasion with soap and water. Apply gauze to scrapes and apply direct pressure. Bandage as appropriate. Seek medical attention for possible infection, tetanus booster.
Seven
You are with a group on the boat following a drift dive, snacking on fruit as the boat heads to shore. As you approach the dock, a wave rocks the boat. One of the other divers drops his apple and grabs his throat.
Student Action: SAFE. Ask if he is choking. Ask if you can help. Perform the abdominal thrusts to remove the airway obstruction.

Eight
Three hours after a dive, you and your buddy have had a nap in preparation for a night dive. You notice your buddy rubbing his arm. He states “I must have slept on it wrong”. 20 minutes later, he says it’s getting worse. His shoulder aches, and his arm is numb and tingling.
Student Action: SAFE. Conduct a neurological assessment. Initiate emergency oxygen use, call for help. Assist the diver to the nearest appropriate medical facility for evaluation by a medical professional for possible DCS.
Instructor Manual
Appendix and Forms
Notes . . .
DAN Licensing
Agreement

The Instructor shall abide by the rules and regulations and follow the course outline set forth in the most recent edition of the DAN Instructor Manual for each course the instructor is certified to teach. Any information imparted to participants not contained in these Manuals shall be consistent with DAN's current published positions on the subject matter in question. Any questions in this regard should be addressed to the DAN Education Department prior to dissemination.

• The Instructor's activities will at all times be conducted in a professional manner and shall promote the interests of DAN and will encourage all students to become DAN Members.

• The Instructor agrees to abide by all of the points addressed in the Code of Ethics listed in the most recent edition of the DAN Instructor Manual.

• All compressed gases, cylinders, and components used during the course shall be handled in strict compliance with the standards of DAN, the Compressed Gas Association (CGA), the United States Department of Transportation (DOT), Transport Canada (TC) or other local agencies or associations. At no time will the Instructor violate any known law or regulation while conducting DAN courses.

• The Instructor shall keep and maintain any and all such records required by DAN or any diver-training association with which he or she is affiliated. Specifically, all successful course participants shall be promptly registered with the DAN Education Department using the DAN Course Roster found either online or in the Appendix of the DAN Instructor manual.

• The appropriate DAN Student Handbook must be used to fulfill training requirements for each course.
  o Each student must possess a copy of the DAN Student Handbook for each course offered either digitally or hardcopy.
  o It shall be a violation of this agreement for the Instructor to obtain and/or use training and certification materials other than from DAN or its authorized agents to conduct the course.
  o DAN training materials are copyrighted and as such, written authorization is required for any reproduction including, but not limited to, translations.
  o All DAN training materials will be assigned a licensing number and must be recorded (whether digital or hardcopy) to a DAN student roster to be validated.

• The Instructor shall bear the sole responsibility for determining that each student has met all criteria for receiving a successful course completion card and certificate in accordance with current DAN standards. It shall be a breach of this agreement for the Instructor to attest certification for any student failing to meet the established minimum standards and course prerequisites.

• The Instructor is hereby granted a limited license to use the names Divers Alert Network and DAN to identify, advertise, and promote the course as specified and for no other purpose, in accordance with established rules as outlined in the DAN Resource Guide.

• DAN courses must be taught as outlined in the most recent edition of the DAN Instructor Manual. Instructors desiring to increase the hours of training or include additional material may do so only before or following the course, and it must be clearly stated that this material is not required to receive DAN Provider certification.
Only Instructors maintaining active status are qualified to conduct the course. To maintain active status, DAN Instructors must:

- Comply with all DAN Instructor renewal requirements in a timely fashion, and,
- Teach at least one (1) DAN course every twenty-four (24) months in each course the instructor is certified to teach, and,
- Be a current DAN Member, and,
- Maintain active teaching status with a national or international diver training association, and,
- Maintain familiarity with current CPR-BLS procedures and guidelines and first aid procedures (if CPR-BLS procedures are taught as part of the course, the Instructor must be accredited by and abide by all training requirements of the association through which they are certified).

DAN Training must be notified prior to the beginning date of the course if DAN oxygen and AED training units are required. Equipment is available on a reservation basis.

Although DAN will attempt to fulfill all such requests, DAN is not liable to the Instructor for any loss or damage caused by DAN's inability to provide said training equipment.

The Instructor shall return all DAN training equipment to DAN Shipping within seven (7) working days after completion of the course in the same condition as received. The Instructor shall bear all risk of loss with respect to the equipment until it has been received and inspected by DAN Training personnel.

The Instructor shall report all accidents and injuries as a result of DAN Instructor activities to DAN Headquarters by telephone, email or fax within twenty-four (24) hours of the occurrence and in writing within forty-eight (48) hours after such an occurrence.

The Instructor acknowledges that DAN does not provide liability insurance coverage for DAN Instructors. Insured SCUBA Instructors who have applied for and been granted instructor specialty course status by their training association for the course should consult their training association concerning liability coverage.

The Instructor hereby releases, forever discharges, and agrees to indemnify DAN, its Directors, Trustees, Officers, employees, members, agents, attorneys, insurers, successors, and assigns from any and all such claims, demands, damages, losses, liability, rights, actions, causes of action, expenses, and suits of any kind whatsoever, foreseen or unforeseen, for personal injury, wrongful death, or damage to property, resulting from the teaching of this course and/or the acts or omissions of the foregoing, including any and all negligent acts, whether active or passive.

The Instructor acknowledges that failure to comply with any of the above terms and conditions may be grounds for immediate revocation of this license by DAN.

Revised 01/12 bhw
Policy for Any Use of the DAN Marks

The marks Divers Alert Network, DAN, Divers Alert Network and Design/Logo and DAN and Design/Logo (the “DAN Marks”) are the registered marks of Divers Alert Network, Inc., 6 West Colony Place, Durham, North Carolina 27705 (“DAN”) and solely owned by DAN.

Use of the DAN Marks is granted to approved licensees and then only under the terms and provisions of this Policy for Any Use of the DAN Marks. A party that is authorized to use the DAN Marks agrees not to claim any right, title or interest in or to the DAN Marks or to adopt any confusingly similar name, designation or mark in the United States or any other country. All uses of the DAN Marks shall inure to the benefit of DAN, not the licensee of the DAN Marks. DAN reserves the right to change these guidelines at its discretion. DAN also reserves the right to immediately terminate permission to use the DAN Marks for anyone not following these guidelines.

The use of the DAN Marks must be authorized by DAN and is meant to note a specific relationship with DAN for an individual or business that works with DAN for the benefit of recreational scuba diving health, education and safety. DAN must approve all intended use(s) of the DAN Marks including use(s) on business cards, advertisements or letterhead or in any similar manner prior to printing or usage.

If the DAN Marks are used on the internet, they must always be used as an active link to DAN’s official website: www.DAN.org. DAN may visit participating websites to check on compliance to these guidelines. DAN may terminate internet use of the DAN Marks at any time even though such use complies with this Policy.

Use of the DAN Marks may be granted by DAN to any one of the categories specified below as well as other DAN business partners.

- Pro Member
- Industry Partner Member
- Referral Physician
- Corporate Donor
- Individual/Foundation Donor
- Dive Club Donor
- Instructor
- Instructor Trainer
- Instructor Examiner
- Regional Coordinator
- Preferred Provider Network

Only the DAN Marks, as seen on DAN's website and printed documents, have been approved by Divers Alert Network and International Divers Alert Network for use. The individual or organization agrees to use the DAN Marks only as such marks are used by DAN. The DAN Marks may be displayed in different sizes, but all elements of the DAN Marks must be recognizable and changed in size proportionally. The DAN Marks may be reproduced in black and white or, if in color, only in PMS 485 (and equivalent in four-color process) and black.
The DAN Marks may not be printed, embossed or displayed on products, literature, packaging or websites that would suggest endorsement or promotion by DAN. Merchandise not supported or provided through DAN and used for sale, may not contain the DAN Marks.

When used in advertising, whether printed or electronic media, the DAN Marks must not be the dominant element in the advertisement. An initial proof for printed use should be provided to DAN Communications for review prior to printing. It may not adjoin, overlap or in any way be incorporated into the dominant element of the advertisement. No use of a DAN Mark may suggest or imply that any individual is a DAN employee or agent.

By using the DAN Marks, the user agrees to these terms and conditions. Use of the DAN Marks in violation of these terms shall be considered unauthorized use and subject to appropriate legal and equitable relief.
Name ___________________________ DAN Member # ________
Address _____________________________________________
City ___________________________ State/Province ________
Country ___________________________ Zip/Postal Code ________ Birthdate__________
Cell Phone (____) __________________ Work Phone (____) . ________________
Home Phone (____) _________________ Email Address _________________
Highest level dive educator ____________ Scuba Agency ____________ Agency Member # ________

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I understand my credentials will not be processed until all paperwork is complete. I have read the DAN Training Licensing Agreement and agree to abide by its conditions. A copy of this agreement is available in the Appendix of the DAN Instructor Manual.

X ___________________________ Applicant Signature Date

I guarantee this DAN training program was taught within established standards and the applicant received up-to-date training materials.

X ___________________________ Instructor Trainer Signature Date

X ___________________________ Instructor Trainer Name (Please Print) Trainer Number

Application Fee

☐ Check - Payable to DAN in U.S. Dollars and Drawn on a U.S. Bank
☐ MasterCard ☐ VISA ☐ American Express ☐ Discover

Card Number ___________________________ 13-16 numbers Expiration Date ________ V. code ________

Cardholder Name ___________________________ Signature ______________

Mail to: DAN Education
6 West Colony PlaceDurham, NC 27705

Fax to: DAN Education +1-919-493-3456
Email to: Oxygen@diversalertnetwork.org

Revised 5/2012
DAN Provider Course Roster

For use with Provider-level courses only. Complete a roster indicating each Training program completed and return it to DAN within 7 business days.

Lead Instructor ___________________________ DAN Instructor Number ___________________________

Course Date ______________________________ Store Member Number ___________________________

Location _________________________________ Store Name _________________________________

City _________________________________ State/Province _________________________________

Certified Assistant ___________________________ DAN Instructor/Member Number ______________

Certified Assistant ___________________________ DAN Instructor/Member Number ______________

Certified Assistant ___________________________ DAN Instructor/Member Number ______________

I verify that the students listed below have successfully completed the knowledge and skills development sessions of the listed training program, in accordance with DAN Education Standards.

Lead Instructor Signature _________________ mm/dd/yyyy

Training Program

☐ Emergency Oxygen for Scuba Injuries
☐ First Aid for Hazardous Marine Life Injuries (HMLI)
☐ Neurological Assessment
☐ Basic Life Support: CPR & First Aid (BLS:CPR)
☐ CPR: Health Care Provider with First Aid (HCP)

☐ Diving Emergency Management Program (DEMP)
☐ Diving First Aid for Professionals Divers
☐ Diving First Aid for Professionals Divers (w/HCP)
☐ Dive Medicine For Divers: Part I
☐ Dive Medicine For Divers: Part II
☐ Dive Medicine For Divers: Part III

Course Participant List

Note: DOB facilitates accurate certification entry and avoids duplicate files for individuals

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Mail: DAN Education 6 W. Colony Place, Durham, NC 27705, USA
Fax: +1.919.493.3456, Email: oxygen@dan.org

Revised 07/2012 bhw
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### Student Card Fulfillment

Students will be sent their certification card after roster submission and processing of $5 payment per card. DAN must have the complete mailing address for each student listed above. Please indicate above where cards are to be sent - the certifying Instructor or directly to the student.

- [ ] Check - Payable to DAN in U.S. Dollars and drawn on a U.S. Bank
- [ ] Master Cards
- [ ] VISA
- [ ] American Express
- [ ] Discover Card

Card Number: ___________________________  Exp. Date: mm/dd/yyyy

Cardholder Name: ___________________________  Cardholder Signature: ___________________________

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Mail: DAN Education 6 W. Colony Place, Durham, NC 27705, USA
Fax: +1.919.493.3456, Email: oxygen@dan.org
Revised 07/2012 bhw
DAN Provider Award
Nomination Form

Training from which course(s) was used in this incident (Check all that applies):

- Emergency Oxygen for Scuba Injuries
- First Aid for Hazardous Marine Life Injuries (HMLI)
- Neurological Assessment
- Basic Life Support: CPR and First Aid (BLS:CPR)
- CPR:Health Care Provider with First Aid
- Diving Emergency Management Program (DEMP)
- Diving First Aid for Professionals Divers
- Dive Medicine For Divers : Part I
- Dive Medicine For Divers : Part II
- Dive Medicine For Divers : Part III

Nominee Information

Name
Address
City __________________________ State/Province __________ Zip/Postal Code __________
Daytime Phone _______________ Cell Phone __________________ Email ____________

Nominator Information

Name
Address
City __________________________ State/Province __________ Zip/Postal Code __________
Daytime Phone _______________ Cell Phone __________________ Email ____________

Dan Equipment Used in Incident

- DAN Rescue Pak
- DAN Rescue Pak Extended
- Dual Rescue Pak
- DAN First Aid Backpack w/O2
- DAN Coast Guard Complete First Aid Kit
- DAN Grab & Go Travel First Aid Pack
- Automated External Defibrillator (AED)
- Bag Valve Mask (BVM)
- Manually Triggered Ventilator

Incident Information

Date of Incident mm/dd/yyyy
Approximate Time of Incident HH:MM AM/PM
Location of Incident (City or Town, State/Province, Country) __________________________

Description of Incident Please print or type a complete description of the incident, the actions of the rescuers, the equipment used and the incident outcome in as much detail as you can provide. You may attach additional pages if necessary. The information provided is, to the best of my knowledge, an accurate description of the events.

_____________________________________________________________________

_____________________________________________________________________

_____________________________________________________________________

Please see page 2 of this form if you need more space. Add additional pages as needed.

Mail: DAN Education 6 W. Colony Place, Durham, NC 27705, USA
Fax: +1.919.493.3456, Email: oxygen@dan.org

Revised 07/2012 bhw
# DAN Provider Award Nomination Form

## Incident Information

<table>
<thead>
<tr>
<th>Date of Incident</th>
<th>Approximate Time of Incident</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm/dd/yyyy</td>
<td>HH:MM AM/PM</td>
</tr>
</tbody>
</table>

Location of Incident (City or Town, State or Province, Country)

Description of Incident Please print or type a complete description of the incident, the actions of the rescuers, the equipment used and the incident outcome in as much detail as you can provide. You may attach additional pages if necessary. The information provided is, to the best of my knowledge, an accurate description of the events.

Nominator Signature (You may nominate yourself)  

Date (mm/dd/yyyy)

Note: DAN Education will use the information provided on this form in the administration of Provider Awards.

Mail: DAN Education  6 W. Colony Place, Durham, NC 27705, USA  
Fax: +1.919.493.3456, Email: oxygen@dan.org

Revised 07/2012 bhw
Course Evaluation

Course Name:  
Course Date:  
Instructor/Instructor Trainer:  
Your name:  

Training Course

Knowledge development was completed (check one)  

<table>
<thead>
<tr>
<th>Strongly Agree</th>
<th>Agree</th>
<th>Disagree</th>
<th>Strongly Disagree</th>
<th>Not Applicable</th>
</tr>
</thead>
</table>
| Course student materials were easy to use and effective.  
The equipment for the course was in good working order.  
There was adequate equipment for the number of students in the course.  
The pace of the course supported my learning.  
The course objectives were met.  
I had adequate time to practice skills.  
The course was a positive experience in a comfortable environment.  
The course length was appropriate for the course content and objectives.  |

Instructor/Instructor Trainer

<table>
<thead>
<tr>
<th>Strongly Agree</th>
<th>Agree</th>
<th>Disagree</th>
<th>Strongly Disagree</th>
<th>Not Applicable</th>
</tr>
</thead>
</table>
| Was well prepared and organized.  
Was professional and helpful.  
Was knowledgeable about the course material.  
Provided insight & enrichment within the scope of the course.  
The instructor provided clear skill demonstrations.  
The instructor provided constructive feedback during the course.  |

Ease of locating this course

<table>
<thead>
<tr>
<th>Strongly Agree</th>
<th>Agree</th>
<th>Disagree</th>
<th>Strongly Disagree</th>
<th>Not Applicable</th>
</tr>
</thead>
</table>
| It was easy to locate an instructor/course for this course  
I did not have to wait for the course to be offered.  |

Contact DAN Education at oxygen@dan.org with additional comments.
Training Outcomes

Please check the appropriate box based on your personal experience with this course.

<table>
<thead>
<tr>
<th>Strongly Agree</th>
<th>Agree</th>
<th>Disagree</th>
<th>Strongly Disagree</th>
<th>Not Applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>The course met my expectations.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I feel confident to deliver the care covered by the skills in this course.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I would recommend this course to other individuals.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I would recommend this instructor to other individuals.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

General Comments

What did you like most about the course and/or the course materials?

What is one thing you would like to see changed in future courses?

Did you receive your own Student Manual/Instructor Manual for each module you participated in?

Yes [ ] No [ ]

Did each student have their own oronasal and non-rebreather masks while participating in your course if needed for skill practice?

Yes [ ] No [ ]

Additional Comments:

For IQC Programs only:

Did each individual get an opportunity to present to the class a five-point skill demonstration in your course for critique by the Instructor Trainer?

Yes [ ] No [ ]

Please circle modules completed in this program:

[ ] EO2 [ ] IM [ ] Neuro [ ] BLS:CPR/FA [ ] PR:HCP
[ ] DFA Pr [ ] DMFD:1 [ ] MFD:2 [ ] MFD:3

Complete form and e-mail to oxygen@dan.org

OR fax to 919-493-3456
DAN believes safe divers are those who continue to seek out training and improve their skills. By continuing to learn about dive safety and the care of injured divers, you have obtained unique status.

To receive your Diving Emergency Specialist recognition, complete one of the options below then submit to DAN Education a completed copy of this application AND photocopies of current certifications for the following:

- **Option 1**
  Rescue Diver (or higher) with your training agency plus
  Diving Emergency Management Provider (DEMP)

- **Option 2**
  Rescue Diver (or higher) with your training agency plus
  Diving First Aid for Professionals (DFA PRO)

- **Option 3**
  Rescue Diver (or higher) with your training agency,
  current CPR with a recognized agency plus
  Emergency Oxygen for Scuba Diving Injuries,
  First Aid for Hazardous Marine Life Injuries, and
  Neurological Assessment

**PERSONAL INFORMATION**

Name ___________________________________________ DAN Member #__________
Address ___________________________________________ City ______________________
State/Province _____________ Zip/Postal Code _______________ Country ____________
Contact Phone ___________________________ Email ____________________________

**PAYMENT INFORMATION**

Application fee of $20.00

Check – Payment to DAN in U.S. dollars and drawn on a U.S. Bank

☐ MasterCard  ☐ VISA  ☐ American Express  ☐ Discover

Card Number (13-16 numbers) ___________________________ Exp. Date ____________
Cardholder Name ____________________________________________
Signature __________________________________________________

Submit completed form to: DAN Education, 6 West Colony Place, Durham, NC 27705
or fax it to: +1-919-493-3456 or email: oxygen@dan.org
DAN believes safe divers are those who continue to seek out training and improve their skills. By offering and being personally committed to dive safety training, you have obtained a unique status.

To receive your Dive Emergency Specialist Trainer or Instructor recognition from DAN, please submit to DAN Education a completed copy of this application. You must be an Active Status DAN Trainer or Instructor in the following DAN Education Programs:

- Basic Life Support: CPR & First Aid or CPR: Health Care Provider certifications
- Emergency Oxygen for Scuba Diving Injuries
- First Aid for Hazardous Marine Life Injuries
- Neurological Assessment

Instructors must have certified at least eight (8) providers in the four qualifying courses or eight (8) DEMP providers or eight (8) DFA PRO providers.

Trainers must meet DES Instructor requirements and have certified five (5) instructors in the above courses or five (5) DFA PRO instructors.

DAN Education will review the application to verify appropriate certifications.

(Check one)  ☐ DES Instructor Trainer  ☐ DES Instructor  DAN Instructor # ____________

PERSONAL INFORMATION

Name ___________________________ DAN Member # __________
Address ___________________________ City ________________________
State/Province ____________ Zip/Postal Code ____________ Country ______
Contact Phone _______________ Email ____________________________

PAYMENT INFORMATION  Application fee of $20.00

Check – Payment to DAN in U.S. dollars and drawn on a U.S. Bank

☐ MasterCard  ☐ VISA  ☐ American Express  ☐ Discover

Card Number (13-16 numbers) ___________________________ Exp. Date ____________
Cardholder Name _______________________________________
Signature ___________________________________________

Submit completed form to: DAN Education, 6 West Colony Place, Durham, NC 27705 or fax it to: +1-919-493-3456 or email: oxygen@dan.org
OXYGEN IN USE
No Smoking
Medical Terminology

Alveoli  Microscopic air sacs in the lungs where gas exchange occurs with the circulatory system.

Anoxia  Absence of oxygen in the circulating blood or in the tissues.

Aorta  The largest vessel of the systemic arterial system, from which the main arteries carrying oxygenated blood branch and subdivide into smaller and smaller vessels.

Arterial Gas Embolism  Also referred to as AGE, a condition in which gas bubbles enter the arterial system and cause damage by blocking blood flow to vital organs, most commonly the brain. This is generally caused by air passing through the walls of the alveoli into the bloodstream.

Arteriole  Small artery.

Atrium  Chamber of the heart which provides access to another chamber called the ventricle.

Bronchi  Plural of bronchus, which is a division of the trachea.

Bronchiole  Small branch of the bronchus that carries air to and from the alveoli.

Bronchospasm  Bronchoconstriction, or the sudden narrowing of the smaller airways, of a spasmodic nature.

Buoyancy Control  The ability to maintain neutral buoyancy. Common causes of buoyancy problems include a current pushing a diver either up or down, being either over- or under-weighted, overinflation of the buoyancy compensator, or lack of the actual skill.

Capillary  Microscopic blood vessels where the gas exchange takes place between the bloodstream and the tissues or the air in the lungs.

Carbon Dioxide  A waste gas produced by the metabolism of oxygen in the body.

Carbon Monoxide  A highly poisonous, odorless, tasteless and colorless gas formed when carbon material burns with restricted access to oxygen. It is toxic by inhalation since it competes with oxygen in binding with the hemoglobin, thereby resulting in diminished availability of oxygen in tissues.

Cartilaginous  Pertaining to or composed of cartilage.

Cilia  Long, slender microscopic hairlike processes extending from cells and capable of rhythmic motion.

CPR  Cardiopulmonary resuscitation.

Current  Refers to a strong or moderate current being present in diving waters during the day of interest.

Decompression Diving  Diving exposure requiring staged in-water stops before ascent to the surface.

Decompression Illness  Also referred to as DCI, decompression illness is a term to describe dysbaric injuries related to scuba diving. This diagnosis stems from the uncertainties in many cases about the mechanistic causation of neurological symptoms. Moreover, it is sometimes impossible to differentiate clinically between neurological DCS and AGE.
An alternative approach has been suggested in which the clinical manifestation of a patient's decompression syndrome is described without attempting to determine the pathophysiology. The term "decompression illness" (DCI) is suggested to encompass all manifestations of diseases following a reduction in ambient pressure, such as ascending from a dive.

**Decompression Sickness** -- Also referred to as DCS, a syndrome caused by bubbles of inert gas forming in the tissues and bloodstream during or after ascent from a dive. DCS is manifested in two major forms, DCS I and DCS II.

* DCS I -- decompression sickness involving only muscle and joint pain, fatigue and/or skin symptoms (itching, rash).
* DCS II -- decompression sickness that includes symptoms involving the central nervous system, respiratory system or circulatory system.

**Dehydration** An abnormal depletion of water and other body fluids.

**Diameter Indexing Safety System (DISS)** Intermediate pressure port where a hose attaches, leading to demand valve or other apparatus.

**EMS** Emergency Medical Services, also Emergency Medical System

**Enriched-Air Nitrox (EAN)** A nitrogen/oxygen mixture containing more than 21 percent oxygen, usually made by mixing air and oxygen.

**Epiglottis** Thin structure behind the tongue that shields the entrance of the larynx during swallowing, preventing the aspiration of debris into the trachea and lungs.

**Erythroprotein** A protein which is synthesized mainly in the kidneys and stimulates red blood cell formation.

**Esophagus** Portion of the digestive tract that lies between the back of the throat and stomach.

**Exertion** Exercise above that required for a relaxed swim in calm water. The main causes of exertion during a dive are current or extra equipment (such as for photography or specialty diving).

**Fatigue** Complaints of being tired, experiencing a lack of sleep or a generalized tiredness.

**fsw** feet of sea water.

**Fossa Ovalis** Oval depression in the wall of the heart remaining when the foramen ovale closes at birth (See patent foramen ovale).

**Gradient** The difference in pressure, oxygen tension, or other variable as a function of distance, time or other continuously changing influence.

**Heliox** Helium and oxygen mixes.

**Hypoxemia** Inadequate oxygen supply in the arterial blood.

**Hypoxia** Inadequate oxygen supply to the body tissues.

**Inert** Having little or no tendency to react chemically.

**Incontinence** Absence of voluntary control of an excretory function, especially defecation or urination.
Intercostal Muscles  The muscles between the ribs which contract during inspiration to increase the volume of the chest cavity.

Ischemia  Inadequate blood flow to a part or organ.

Larynx  The organ of voice production, also known as the voice box; the opening from the back of the throat into the trachea (windpipe).

Laryngospasm  Severe constriction of the larynx in response to the introduction to water, allergies, or noxious stimuli.

LPM  Liters per minute. A measurement of a flow rate of gas or liquid.

Mediastinum  The space within the chest located between the lungs, that contains the heart, major blood vessels, trachea and esophagus.

Metabolism  The conversion of food into energy and waste products.

Mixed Gas  Any breathing medium that was mixed using oxygen and other gases, most commonly, helium, nitrogen, or air. Mixed gas could have only a single inert gas (e.g., heliox, nitrox) or multiple inert gases (e.g., trimix -- nitrogen, helium and oxygen mixes: see next page).

Multiday  When more than one day of diving was performed in this particular dive series with a surface interval of < 24 hours between consecutive dives. "Multiday" and "single-day" are mutually exclusive.

Multilevel Dive  A dive in which the diver remains at several depths for a period of time before beginning final ascent to the surface: this contrasts with square dive, which involves a single depth (see next page). Many different levels can be visited in one dive before finally ascending -- for example, a diver descends to 60 feet / 18 meters and stays for 10 minutes then descends to 80 feet / 24 meters and stays for five minutes, ascends to 50 feet / 15 meters for 10 minutes and then to 20 feet / 6 meters for five minutes before surfacing.

Nitrox  A nitrogen-oxygen mixed gas that contains an oxygen percentage other than 21 percent. "Oxygen-enriched air* or "enriched-air nitrox* refer to nitrox mixtures with oxygen levels greater than 21 percent. The most common nitrox mixtures are NOAA Nitrox I and NOAA Nitrox II, 32 percent oxygen and 36 percent oxygen, respectively.

No-Decompression  A dive not requiring a staged stop during ascent to the surface. This type of dive can be made with either tables or computers.

Nystagmus  Spontaneous, rapid, rhythmic movement of the eyes occurring on fixation or on ocular movement.

Oblique  An indirect or evasive angle.

Oxygen  A colorless, odorless, tasteless gas essential to life making up approximately 21 percent of air.

Occlude  To close off or stop up; obstruct.

Patent Foramen Ovale  A hole in the septum (wall) between the right and left atria of the heart.

Pericardium  A double-layered membranous sac surrounding the heart and major blood vessels connected to it.
Pharynx  Portion of the airway at the back of the throat, connecting mouth, nasal cavity and larynx.

Platelet  A round or oval disk found in the blood of vertebrate animals that are involved with blood clotting.

Pleura  Membranes surrounding the outer surface of the lungs and the inner surface of the chest wall and the diaphragm.

Prescription  A written order for dispensing drugs signed by a physician.

Primary Assessment  Assessment of the Airway, Breathing and Circulation (pulse) in an ill or injured person; also known as the ABCs.

PSI  Pounds per square inch; a measurement of pressure.

Rapid Ascent  The currently recognized recommended ascent rate is no faster than 60 feet / 18 meters per minute. A rapid ascent occurs when a diver ascends faster than the recommended rate. Rapid ascents are often uncontrolled and can be caused by overinflation, poor buoyancy control, being underweighted or panic.

Repeat Dive / Repetitive Dive  More than one dive was made on the day of interest, with some period of time spent at the surface between dives (surface interval). "Single dive" and "repeat dive" are mutually exclusive.

Respiration  The exchange of gases between a living organism and its environment; the act of breathing.

Respiratory Arrest  Cessation of breathing.

Sign  Any medical or trauma condition that can be observed and described.

Single-Day  Only one day of diving was done in this particular dive series. "Single- day" does not denote the number of dives, but rather a single day of diving (for example: four dives could be made in a single day: or a single day of diving could include one dive only).

Square Dive  A dive in which a diver descends to a single depth and remains until beginning the final ascent to the surface. This contrasts with multilevel dive, (see Page 123): for example, a diver descends to 60 feet / 18 meters and stays at 60 feet for 30 minutes before ascending. Square dives and multilevel dives are mutually exclusive.

Supine  Lying flat on back, with face upward.

Surfactant  A substance produced in the lungs to reduce surface tension in alveoli and small airways.

Symptom  Any non-observable condition described by the patient.

Technical Dive  In this report, a technical dive is defined as one in which one of the following conditions existed:

* Diving deeper than 130 feet / 40 meters;
* Using a breathing mixture other than compressed air;
* Decompression or overhead diving (diving in shipwrecks or caves);
* Special training and equipment were used.
**Thorax**  The upper part of the trunk (main part of the body) between the neck and the abdomen which contains the heart, lungs, trachea and bronchi.

**Trachea**  The air passage that begins at the larynx and ends as the beginning of the principal right and left bronchi.

**Trimix**  Nitrogen, helium and oxygen mixes.

**Valsalva Maneuver**  The forced inflation of the middle ear by exhaling with the mouth closed and the nostrils pinched.

**Venous Gas Emboli**  Inert gas bubbles in venous blood (which return to the heart and lungs).

**Ventricle**  Thick-walled, muscular chamber in the heart which receives blood from the atrium, pumping it through to the pulmonary or systemic circulation.

**Venules**  Small veins.

**Within Limits**  Represents divers who were diving within their computer or table limits.