



TEXAS A&M UNIVERSITY-SAN ANTONIO

## Dive Program

### **Scientific Diver application checklist**

This document has the intention to facilitate identifying the requirements to apply as a Scientific diver of the A&M-SA Dive Program, but it is not a required document. Nothing in this document should be construed to circumvent policies and standards set on the A&M-SA Diving Standards for Underwater Operations.

#### **Required prior to in-water activities**

- \_\_\_ Appendix 1.- Diving Program Application Form
- \_\_\_ Appendix 2.- Release of Liability, Waiver of Rights, and Indemnification Agreement
- \_\_\_ Appendix 3.- Diving Medical Exam Overview for The Examining Physician
- \_\_\_ Appendix 4.- Diving Medical History Form
- \_\_\_ Appendix 5.- AAUS Medical Evaluation Of Fitness For Scuba Diving Report
- \_\_\_ All diving certifications on file, minimum Open Water
- \_\_\_ Valid diving insurance on file
- \_\_\_ \*Current medical first responder certifications from recognized agencies, including
  - First Aid
  - Cardiopulmonary resuscitation (CPR) for adults
  - Automated external defibrillator (AED) for adults
  - O<sub>2</sub> administration for diving accidents

\*DAN Diving First Aid (DFA) courses fulfilling the requirements for scientific diving are freely available at the university.

#### **Optional documents**

Appendix 1b.- Personal equipment registration and maintenance record



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### Required in-water activities

#### **Swimming evaluation**

Activities under the swimming evaluation must be completed in a single session. A break of up to 10 minutes between activities is allowed. Only goggles or SCUBA mask are allowed. If exposure protection is needed, the candidate must be appropriately weighted to provide neutral buoyancy.

\_\_\_ Swim underwater for 25 yards (23 m) without surfacing

\_\_\_ Swim 400 yards (366 m) < 12 minutes

\_\_\_ Transport a passive person for 25 yards (23 m) in the water

\_\_\_ Tread water 10 min, or 2 min without the use of hands

#### **Confined water evaluation**

\_\_\_ Enter water fully equipped for diving

\_\_\_ Demonstrate the ability to alternate snorkel and SCUBA while swimming

\_\_\_ Clear fully flooded face mask underwater while maintaining neutral buoyancy

Demonstrate air sharing and ascent as (at least one while ascending)

\_\_\_ Donor

\_\_\_ Recipient

\_\_\_ Using an alternate air source

\_\_\_ Using an alternate air source as recipient, without a mask

\_\_\_ Buddy breathing

\_\_\_ Buddy breathing as donor, without a mask

\_\_\_ Underwater communication

Demonstrate ability to remove and replace equipment

\_\_\_ On the surface

\_\_\_ While submerged, maintaining neutral buoyancy

\_\_\_ Watermanship skills

\_\_\_ Buoyancy control



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### **Open water evaluation**

\_\_\_ Demonstrate judgment for safe scientific diving, prior, during, and after diving activities

\_\_\_ Enter and exit water while wearing SCUBA gear

\_\_\_ Underwater communications

Demonstrate the ability to maneuver efficiently

\_\_\_ On the surface

\_\_\_ Underwater

\_\_\_ Neutral buoyancy

\_\_\_ Surface dive to a depth of 10 feet (3 meters) without SCUBA

\_\_\_ Kick on the surface 400 yards (366 meters) while wearing SCUBA gear, but not breathing from the SCUBA unit

Demonstrate proficiency in air sharing ascent as

\_\_\_ Donor

\_\_\_ Receiver

\_\_\_ simulated emergency swimming ascent

\_\_\_ Clearing of mask underwater and maintaining neutral buoyancy

\_\_\_ Clearing regulator underwater and maintaining neutral buoyancy

\_\_\_ Demonstrate techniques of self-rescue and buddy rescue

\_\_\_ Neutral buoyancy while completing a task (e.g., tool transfer, writing on a slate)

Rescue skills

\_\_\_ Rescue from depth and transport 25 yards (23 meters) on the surface

\_\_\_ Simulate in-water mouth-to-mouth resuscitation

\_\_\_ Removal of victim from water to shore or boat

\_\_\_ Stressed and panicked diver scenarios

\_\_\_ Plan and execute a dive (not required during checkout dives)

\_\_\_ Underwater navigation (not required during checkout dives)



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