



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
 - O₂ 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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