



GAP Analysis Between ADCI CS 6.2 and 6.3

December 2019

All Pages: Change to new "ADCI" logo:

Page i:

Change to: 6.3 EDITION

Page ii:

Add: Sixth Edition 2018 (Revision 6.3)

Page vi:

Add: Surface-Supplied Certifications (INTERNATIONAL ENDORSEMENT)

Page vii:

Remove: 5.5 DIVER'S PERSONAL LOOK BOOKS

Page xi:

Add: Ship Husbandry

Page xvii:

Change to: 6.3 edition...supersedes the 6.2 edition, dated 2016. A Gap Analysis between editions 6.2 and 6.3 can be accessed on the ADCI website.

Section 2.0

Section 2.3.1

Change 2. to read: "Examinations are required on an annual basis."

Revise 3. to have licensed physician signature to be legible and/or stamped, with their medical designation clearly indicated.

Section 2.3.6

Remove in second bullet: Extra space between "spontaneous pneumothorax."

Section 2.4

Remove on P. 11, 34 a) - the extra space between the words "herpes" and "will"

Add on P.11, 34 d) - a space between the words "of" and "kidney"

Change on P. 11, 49 – capitalize the word "Romberg" in text

Section 3.0

Add "NOTE: Personnel who hold a recognized and current DMT certification will not be required to also hold First Aid/CPR/AED/O2 Provider qualifications."

Section 3.1.3

In first paragraph, first sentence, remove "saturation technicians"

Section 3.1.4

Add "International Endorsement Certification Matrix" underneath current "Certification and Training Matrix"

Remove "Saturation Technician" Column

Section 3.1.8

Remove on P. 29, Saturation Technician card (front and back)

Section 3.1.9

Remove "Saturation Technician" from "APPLICATION FROM ADCI MEMBER COMPANY"

Remove "Saturation Technician" from "INDIVIDUAL APPLICATION"

Remove "Saturation Technician" from "INDIVIDUAL REPLACEMENT APPLICATION"

Section 3.2.1

Remove second to last bullet, "Maintain a diver's log book documenting all hyperbaric exposures."

Section 3.3.1

Remove second to last bullet, "Maintain a diver's log book documenting all hyperbaric exposures."

Section 3.4.1

Remove second to last bullet, "Maintain a supervisor's log book documenting all hyperbaric exposures."

Section 3.5.1

Remove second to last and last bullets, “Ensure that a diver’s log book that details all dives, medical examinations, courses taken, certification level achieved and personal equipment maintenance.” / “Ensure that medical certificates are up to date and recorded in the diver’s log book.”

Section 3.6.1

Remove last sentence from 4th bullet, “Make available a copy of the safe practices/operations manual to the person in charge of the vessel or facility, with written modifications necessitated by specific operating conditions.”

Remove last bullet, “Maintain a supervisor’s log book that details all dives and medical treatment supervised.”

Section 3.7.1

Remove second to last and last bullets, “Ensure that a diver’s log book that details all dives, medical examinations, courses taken, certification level achieved and personal equipment maintenance.” / “Ensure that medical certificates are up to date and recorded in the diver’s log book.”

Section 3.8.1

Remove last bullet, “Maintain a supervisor’s log book documenting all hyperbaric exposures.”

Section 3.10

Remove entire section

Section 4.0

Section 4.2.1

Revise third bullet to read, “One tender/diver who shall be properly equipped and capable of performing the duties of a standby diver. When two (2) divers are in the water, an additional member must be added to the dive team to act as a surface standby diver.”

Section 4.3 SURFACE-SUPPLIED DIVING

Added:

Volume tanks are only required for air dives or chamber operations utilizing an LP compressor. Operations utilizing only HP/bottled air supplies do not require a volume tank.

Section 4.3.1

1. Correct spelling of "Personnel"

Section 4.3.1.3

Revise first bullet to read, "One independent air source (and volume tanks if applicable) to support two divers. Remove from last bullet, "Log books"

Section 4.3.2.3

Revise first bullet to read, "Two independent air sources (and volume tanks if applicable) to support two divers."

Add an additional bullet for, "One double-lock decompression chamber..."

Remove from last bullet, last item, "Logbooks"

Section 4.3.3.3

Revise first bullet to read, "Two independent air sources (and volume tanks if applicable) to support two divers."

Remove from last bullet, "Logbooks"

Section 4.4.5.2

Revise the "Diving at Altitude" section to read, "NOAA NITROX diving tables are usable to 1000 ft. elevation. At higher elevations, use EAD corrected to sea-level equivalent depth per U. S. Navy Dive Tables."

Section 4.5.3

Remove from second to the last bullet, "Log books"

Section 5.0

Section 5.1

Add new text before the last sentence in the first paragraph, "ADCI Associate Member Schools are required to have their own version of a Safe Practices & Operations Manual, specific to the safety of both the students and instructors. The manual shall be available at the dive location or at each dive station at the school."

Section 5.2

Add additional text in 3., first bullet, "The hours of operation of the nearest hyperbaric facility, along with its chamber capability (6 ATA or 165') and ensure it's ability to treat diving incidents."

Section 5.4

Replace current "INVENTORY FIRST AID KIT (COMMERCIAL DIVING)" with new "INVENTORY: ADCI BASIC FIRST AID KIT (COMMERCIAL DIVING)"

Pseudoephedrine is misspelled on the drug list...pg. 64

Section 5.13

Add additional bullet to read, "Diver's condition upon surfacing" and diver signature line

Section 5.17.6

Revise the first bullet narrative to begin with the word "If"

Section 5.17.7

Adjust the first reference to read, Association of Diving Contractors International, Inc. "The Hazards of Working in Delta-P Work Environments, 2010 Video."

Section 5.23

The following text should be added to the existing narrative, "When diving from surfaces other than vessels in areas capable of supporting marine traffic, a rigid replica of the international code flag "A" at least one meter (3'-3.5') in height shall be displayed at the dive location in a manner which allows all around visibility, and shall be illuminated during night operations. It is also recommended that the "Dive Down" flag (red flag with a white diagonal stripe commonly used by recreational SCUBA divers be used in conjunction with the "Alpha" flag).

Section 5.28.1

Add items 3. a and 4. from Section 5.1.

Section 5.28.3

Add additional bullet, "Full floatation backboard or Stokes litter, complete with head restraint and restraint straps."

Section 5.28.4

Revise first bullet to read, "Written dive plan, outlining the steps and sequence of operations."

Insert a note that commercial diver training programs should also have written dive plans, as a training aid, outlining the steps and sequences of the operation.

Section 5.38.4

In "c." add a parenthesis after "(Level three"

Added:

Section 5.40 UNDERWATER SHIP HUSBANDRY (UWSH) FOR CARGO SHIPS AND FREIGHTERS

Section 6

Section 6.1 GENERAL

At the dive location (vessel or land based) there must be a list of all life-support, and all associated equipment for diver ingress/egress, with all applicable certifications documenting fitness for use. Maintenance and test records and documentation outlining design limitations and manufacturers' restrictions on use should be easily accessible at the company level and provided as needed. This may also include technical manuals, spares inventory for the equipment on site, documentation of planned maintenance, repair and maintenance records, equipment logbooks, and checklists.

Additionally, maintenance should be based on the amount of time the equipment has been in operation, manufacturer's recommendations, or the equipment's documented history and pedigree.

Maintenance schedules must be outlined and documented, with only qualified personnel performing the inspection, maintenance, and testing of equipment and systems. This documentation should be accessible at the company facility and provided as needed.

Section 6.5.2 Remove "OXYGEN" from the title.

Section 6.5.3

On P. 102, Change "3." To "4.", "4." to "5.", and change "5." to "6."

Section 6.6.4

Revise 2. To read:

"Air purity tests shall be taken at the discharge point that would normally supply the breathing gas system, the diver's hose or cylinder fill point."

Added:

Section 6.7 MANIFOLDS

Section 6.8 PRESSURE-REDUCING REGULATORS

Section 6.11, (3., 4th bullet)

Revise to read, "Be recalibrated using a gauge of equal or greater accuracy in accordance with ASME B4.100-2005. Gauge must be tested at a minimum of 5 points up and down the scale with variance no greater than +2%."

(3., 5th bullet)

Revise to read, "Be marked with a label, tag, or sticker indicating date of last calibration, due date, and technician's initials, which will not interfere with full scale visibility."

Section 6.13.2

Added:

4. "HP cylinders that are stamped with a star adjacent to their hydro date are only subject to hydrostatic testing every 10 years."

Section 6.14.2.1 (10.)

"Have a means to maintain O₂ below a level of 25%."

Section 6.14.2.1 (11)

"Have a means to maintain the CO₂ level below 1%."

Section 6.14.2.1 (19)

"Pressure tests shall be at maximum operating pressure and not exceed the maximum allowable pressure of the components/systems being tested." ASME PVHO 2 (2016)

Section 6.14.2.1 (22)

"Have a non-return valve or quick disconnect with built-in check valve on through hull penetrators supplying any built-in breathing system."

Section 6.14.2.1 (24)

"Be equipped with a readily available means of extinguishing a fire."

Section 6.14.2.1 (27)

"Chamber and BIBS exhaust shall not vent into an enclosed space. An enclosed space can mean a small shack, tented area, container, or inside a vessel."

Section 6.12.2.1 (30)

"All chambers shall have an emergency breathing media immediately available to the BIBS, in addition to the treatment gas."

Section 7

Section 7.1.1(1, 3rd bullet) Loss of Breathing Media

Added:

“If applicable, put breathing media to diver’s pneumo hose and confirm that the diver has bubbles, before insertion of the pneumo hose into the diver’s neck dam.

Section 7.1.5(4) Severance of Umbilical – Gas Hose only

Added:

Same language as 7.1.1(1, 3rd bullet)

Section 9 Remote Operated Vehicles (ROVs)

Complete rewrite of the entire section.

Section 11

Added:

Volume Tank Test Procedure

Volume Tank 5-Year Hydrostatic Test Procedure

Air Hose Pressure Test Procedure

Dive Umbilical Checklist & Preventive Maintenance

Pressure Relief Valve Test Procedure

Decompression Chamber Pressure Test Procedure