

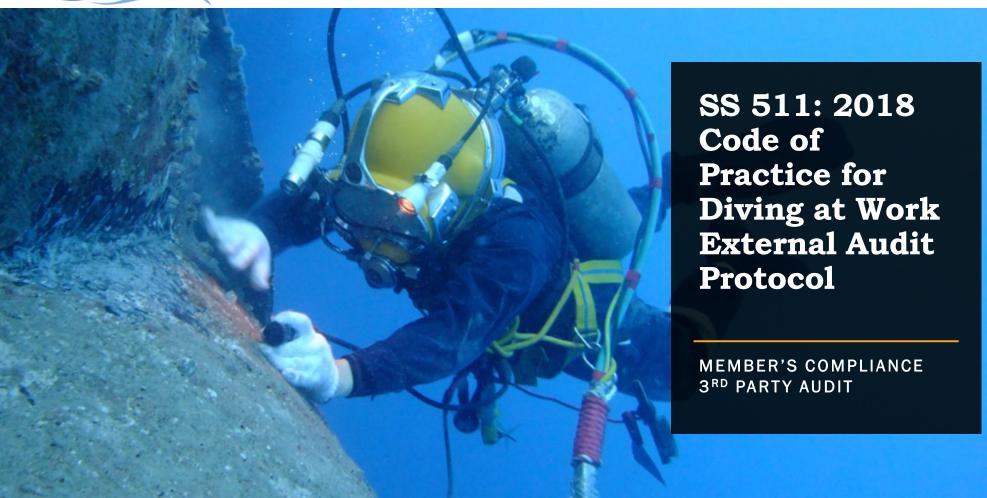
Safety Diving Seminar 19th August 2022

CDAS Audits: what they are about, common deficiencies / oversights from previous audits

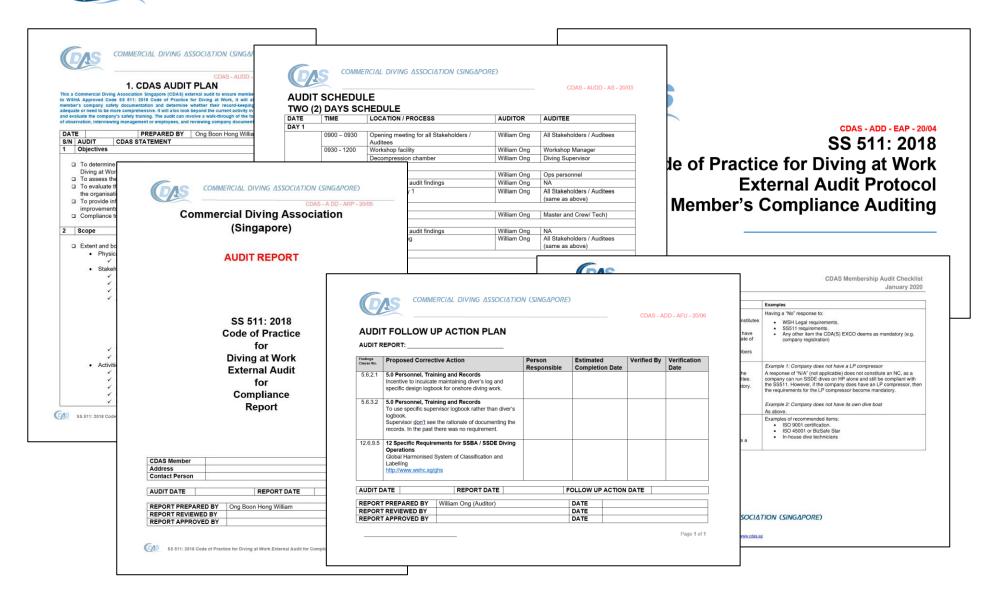


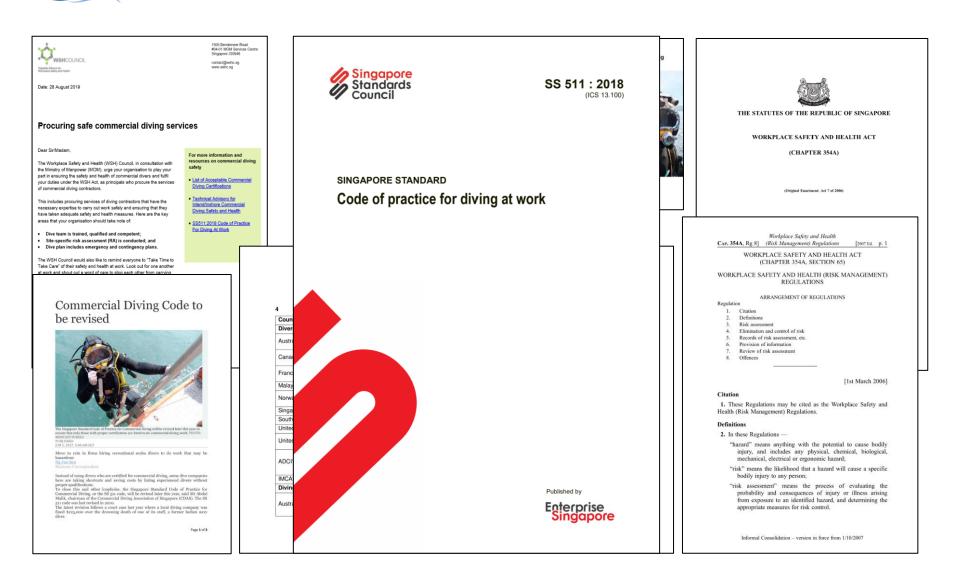


Commercial Diving Association Singapore



CDAS Audit Report: 19/02 - 24/04 2020





















M1

M2

M3

M4

M5

M6

M7

M8

Divetech Marine Services Pte Ltd

SeaTec Services Pte Ltd

KBA Marine Services Pte Ltd

Ocean Works Asia Pte Ltd

International Marine Ind **Diving Pte** Ltd

Mencast Subsea Pte Ltd

Dive Marine Services Pte Ltd

West Squadron Marine Services Pte Ltd

















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1-3-5-6-9-10

Classification Societies

1-5

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1-3-4-5-6-8-9-10













Classification Societies













7









10

Audit Scoring Criteria.

Finding	Definition/Impact	Action/Mitigation		
COMPLIANT	Compliant means adherence with the requirements of the standard and the RM. The process is implemented and documented, and records exist to verify this.	Continue to monitor trends/indicators.		
OFI	A low risk issue that offers an opportunity to improve current practice. Processes may cumbersome or overly complex but meet their targets and objectives. Unresolved OFIs may degrade over time to become non-compliant.	Review and implement actions to improve the process(s). Monitor trends/indicators to determine if improvement was achieved.		
MINOR N/C	A medium risk, minor non-conformance resulting in deviation from process practice not likely to result in the failure of the management system or process that will not result in the delivery of non-conforming products nor reduce the effectiveness of the RM.	Investigate root cause(s) and implement corrective action by next reporting period or next scheduled audit.		
MAJOR N/C	A high risk, major non-conformance which directly impacts upon customer requirements, likely to result in the customer receiving non-conforming products or services, or which may reduce the effectiveness of the RM.	Implement immediate containment action, investigate root cause(s) and apply corrective action. Re-audit in 4 weeks to verify correction.		

s/n	Member	Audit Clause	Audit findings	Score	Follow Up Action
1		5.0 Personnel, Training and Records 5.6.3.2 5.6.2.1 12 Specific Requirements for SSBA / SSDE Diving Operations 12.6.9.5	OFI OFI	3 OFI	c c
2		5.0 Personnel, Training and Records 5.6.3.1 5.6.3.2 9.0 Diving Equipment 9.4.1 9.6.1.1 9.7.6.8 10 Dive Site Requirements 10.1.1 12 Specific Requirements for SSBA / SSDE Diving Operations 12.6.9.1	OFI OFI OFI OFI OFI	7 OFI	00 000 0
3		9.0 Diving Equipment 9.7.6.8	OFI	1 OFI	С
4		9.0 Diving Equipment 9.7.6.8	OFI	1 OFI	С

5	4.0 Roles and Responsibilities		6 OFI	
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	4.2.2	OFI		č
	6.0 General Diving Procedures	011		_
	6.1.1.3	OFI		_
		OFI		c c
	6.1.3.2	OFI		C
	9.0 Diving Equipment	051		_
	9.6.2.2	OFI		C C
	9.7.6.8	OFI		C
6	6.0 General Diving Procedures		2 OFI	
	9.6.2.3	OFI		С
	9.0 Diving Equipment			
	9.7.6.8	OFI		С
<u> </u>	0.00: 5		4.051	
7	9.0 Diving Equipment		4 OFI	_
	9.6.2.3	OFI		C C
	9.7.6.8	OFI		C
	10 Dive Site Requirements			_
	10.1.1	OFI		С
	12 Specific Requirements for SSBA / SSDE Diving Operations			_
	12.6.5.2	OFI		С
8	9.0 Diving Equipment		1 OFI	
	9.7.6.8	OFI		С

Only 1 Minor Non-conformance sited



9.6 First aid and medical equipment

9.6.1 General

9.6.1.1 Appropriate first aid equipment should be made available at the dive site, the contents of which should take into account the possible diving hazards at each dive site and should be able to cope with any foreseeable emergency. As such, the first aid training and medical experience of the dive team members should be taken into account (see 5.5). At a minimum, provision for airway suction and transport of an unconscious person (i.e. a stretcher should be provided in addition to any requirements from a regulatory or certifying body).

9.6.1.2 A dedicated first aid kit for the decompression chamber shall also be made available. The items in the diving first aid kit should reflect those that have been established in the relevant standard. Personnel should be trained to use the medical equipment in the diving medical kit.

9.6.2 Oxygen resuscitation equipment

9.6.2.1 In addition to the first aid medical equipment mentioned above, an oxygen resuscitation set shall be available at the dive site for immediate use.

9.6.2.2 The oxygen resuscitation set shall be able to supply 100% medical oxygen to:

- (a) a breathing patient; and
- (b) a non-breathing patient via artificial ventilation.
- 9.6.2.3 There shall be sufficient 100% medical oxygen available to supply the resuscitator to get the patient to the nearest safe haven/medical facility.

9.6.3 Automated external defibrillator (AED) Equipment

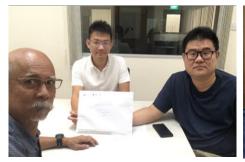
In addition to the first aid medical equipment mentioned above, an AED unit shall be available at the dive site for immediate use.



A dedicated first aid kit for the decompression chamber



























Started 19/02/2020 - Ended 24/05/2021



Auditor's comment:

I have observed that most of the CDAS members would have no problem to provide evidence of commercial diving legal requirements as they have other third parties' audits such as but not limited to:

- ☐ IMCA ☐ ADCI
- ☐ ISO 45001 ☐ ISO 9001
- ☐ Classification Society
- ☐ BizSafe Star

Compliance to SS 511: 2018 Code of Practice for Diving at Work required by CDAS for their members is a commitment statement and manifestation of meeting standards.



Continuous improvement requires the participation of everyone in the association.

This includes the chairman, executive council members, and members. The continuous improvement program becomes effective when members are engaged in:

- ☐ Developing the culture and are proactive in identifying areas for improvement.
- □ Everyone should understand their role and contribution to association's continuous improvement program.
- ☐ Only by "diving" together can the goals of the improvement program be achieved.
- ☐ Part of working together on this effort is sharing the responsibility of the program across the entire association.

DO

ACT

CHECK

Act – Document the results, inform members about process changes, and make recommendations for the future PDCA cycles. If the control measures was successful, implement it. If not, repeat the PDCA cycle again.

Plan – Identify the problem, collect relevant data, and understand the Hazards/Risks, develop safe work procedures about what the Hazards/Risks, and plan additional control measures.

Check - Confirm the results through before-and-after control measures. Study the result, measure effectiveness, and decide whether the ALARP control measures is supported or not?

Do – Develop and implement risk assessments control measures; gauge its effectiveness and measure the results.

PDCA cycles

slido



What is the first document for diving companies to review in order to kickstart the CDAS membership audit process