

Tripartite Alliance for Workplace Safety and Health

Overview of WSH Guidelines Inland/Inshore Commercial Diving

CDAS Webinar - 17 September 2021













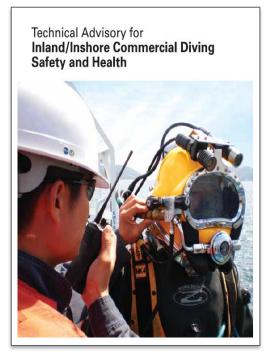
Outline

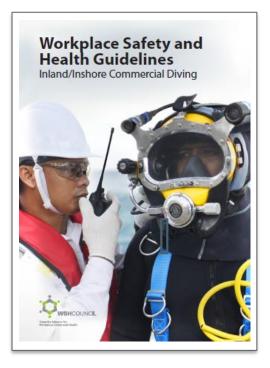
- Background
- Development of WSH Guidelines Inland/Inshore Commercial Diving
- Key Enhancements



Background: From TA to WSH Guidelines

 The revised WSH Guidelines developed in 2021 shall replace the Technical Advisory for Inland/Inshore Commercial Diving Safety and Health (TA) which was developed in 2009.

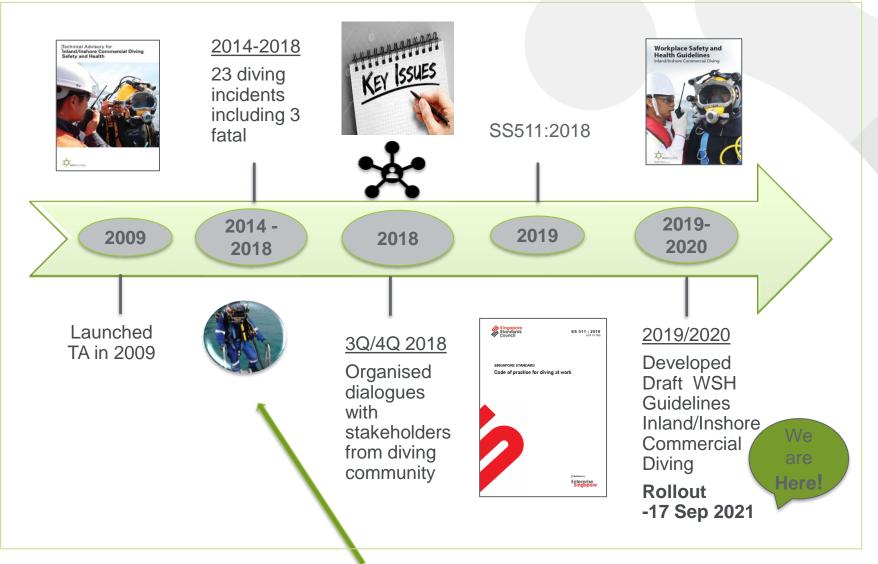






Background: Timeline

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All these incidents are preventable with proper dive planning and adherence to safe work procedures.

WSH Guidelines Inland/Inshore Commercial Diving

Objectives

- Review the TA on safe diving operation (2009)
- Align with SS511:2018 Code of Practice for Diving At Work

Formation of working group

- Consists of members from regulatory bodies (e.g., MPA, MOM), commercial diving companies, association, unions, freelance divers, training provider and educational institution.
- Conducted rigorous review with inputs from public consultation for consideration.



Key enhancements/changes



S/N	TA (2009)	WSH Guidelines Inland/Inshore Commercial Diving (2021)	Rationale
1	Diving Supervisor is required to record all communications with the diver and maintain the recording for at least 24 hours	3.4.1 Diving Supervisor Maintain communications with the diver(s) at all times and record all communications throughout the entire duration of the dive subjected to a minimum duration of 48 hours.	 Improve diver communication with diving supervisor. Align with SS511:2018, Code of Practice for Diving at Work
2	Brief mention of dive team size and the need of diver tender for every diver in water.	3.4.7 Dive Team Size Elaboration on the dive team composition with added illustrative <u>figures</u> for <u>5-men</u> and <u>7- men</u> dive teams for diving operation in different situations.	 Clear illustration facilitate resource planning for assigned task(s). Align with SS511:2018, Code of Practice for Diving at Work



Dive team configurations

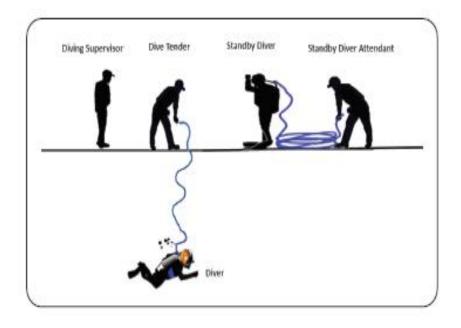
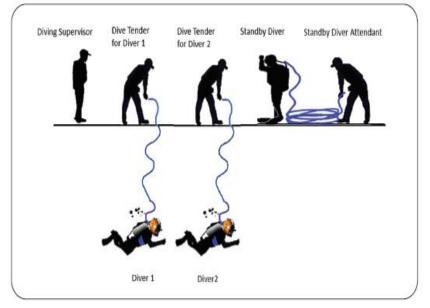


Figure 1: 5-men team with one diver

Credit: Courtesy from Hydropro Private Limited







S/N	TA (2009)	WSH Guidelines Inland/ Inshore Commercial Diving (2021)	Rationale
3	No mention of diver breathing air to comply with quality standard.	 4.3.3 Low Pressure (LP) and High Pressure (HP) Air Compressors Diver air quality to meet <u>BS EN 12021</u> certification. 4.3.1 Air Cylinders Include the need for air cylinders to undergo periodic test and maintenance schedule in line with <u>SS639:2018 (Part 1)</u> requirements (Annex C - Recommended Equipment Periodic Test and Examination Schedule) 	 Enhance breathing air quality for safety of divers based on acceptable standards Aligned with SS511:2018, Code of Practice for Diving at Work.
4	Elements of risk assessment (e.g. hazards, risk control) were included in various sections. No systematic approach of risk management and process was mentioned.	 6 Risk Management (New) Continuation on the common commercial diving hazards identified in Section 5, this section includes Risk Management plan and process with coverage on: Steps involved in Risk Assessment Risk evaluation using 5x5 risk matrix Suggested risk control measures for the common hazards using hierarchy of controls 	 Aligned with Code of Practice on WSH Risk Management. Allow diving contractor to equip with a rigorous risk management plan as part of dive project plan for a safe dive operation



S/N	TA (2009)	WSH Guidelines Inland/Inshore Commercial Diving (2021)	Rationale
5	Dive team members should possess First- Aid training and certification which is valid for a 3 year period and refresher training would be required. Note: No mention of dive medical first aid training for divers	 7.1 Dive Operations Planning Training and competencies of dive team Divers are required to attend the dive medical first aid and all dive team personnel shall be trained and qualified in Occupational First Aid certification (OFAC), subjected to a two-year refresher or equivalent 	 Update of OFAC to 2-year validity Reinforce the need for dive medical first aid training with alignment to SS511:2018 requirements

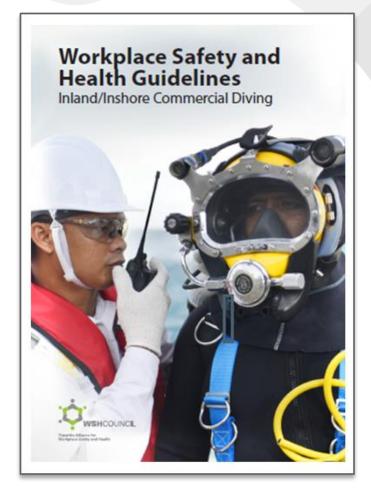


WSH Guidelines for Inland/Inshore Commercial Diving

To download, scan QR code or go to <u>www.tal.sg/wshc/Resources</u>







Thank you

