



SUB-COMMITTEE ON STANDARDS OF
TRAINING AND WATCHKEEPING
34th session
Agenda item 13

STW 34/13/3
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ANY OTHER BUSINESS

Knowledge, Skills and Training for Officers on WIG Craft

Submitted by Australia and the Russian Federation

SUMMARY

- Executive summary:** Following approval of Interim Guidelines for Safety of WIG Craft and approval of an appropriate work programme item by MSC 76, a basis is proposed for the development of standards for “Knowledge, Skills and Training for Officers on WIG Craft”.
- Action to be taken:** Paragraph 7.
- Related documents:** MSC 76/20/6; DE 45/27, paragraphs 6.8 and 6.10 and annex 5.

1 This document is submitted following approval of a Work Programme item for the STW Sub-Committee by MSC 76 in accordance with the request in MSC 76/20/6 by Australia and the Russian Federation.

2 In submitting the Work Programme request to MSC, Australia and the Russian Federation are mindful of the pivotal importance of WIG craft officer knowledge and skills to the safety of these craft and of other vessels and aircraft with which WIG craft may share an operational area. This is of particular importance following the finalization of Interim Guidelines for Safety of WIG Craft by DE 45 and their submission for approval by MSC 76.

3 The submitting countries, both of which have operational WIG craft and schools for training WIG craft operators, consider that personnel with appropriate skills for the operation of WIG craft could be trained from a base of skills and qualifications in the operation of either high-speed marine craft or aircraft. In view of the unique position of WIG craft between the aviation and maritime regulatory regimes, it is therefore appropriate that standards for these personnel should be developed from an analysis of required knowledge and skills for safe WIG craft operation rather than the competency sets required for existing ships and aircraft.

4 In common with other ships and aircraft, the knowledge and skill sets necessary for the safe operation of a WIG craft will vary according to the type, size and complexity of the craft and the area of operation. There is no intention to address details in this paper, since they can be elaborated at a later date, and the submitting countries intend only to outline an appropriate

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framework of areas of essential knowledge and skill for these craft as a prelude to that elaboration.

5 Accordingly, Australia and the Russian Federation request that STW approve a "Draft framework of professional qualifications and areas of required knowledge and skills for officers on a WIG Craft" upon which they can develop further details for submission to STW 35. A suggested initial text for the draft is shown at annex.

6 In accordance with the outcome of the joint IMO/ICAO group on WIG craft at DE 38, the initial draft list is based on all WIG craft operations up to and including ground effect being within IMO jurisdiction. The Sub-Committee should therefore note that requirements for officers of craft operating outside of ground effect should be determined in consultation with ICAO or by ICAO, as appropriate.

Action requested of the Sub-Committee

7 The Sub-Committee is invited to consider the above, together with the annex, with a view to developing an appropriate basis upon which submissions on this subject can be made by Australia, Russian Federation and any other interested delegations to STW 35.

ANNEX

**Draft framework of professional qualifications and areas of required knowledge and skills
for officers on a WIG Craft**

Professional qualification components for WIG Craft officers	Areas of competency
Pre-Requisite Short Course Certification (may be assumed to be met by appropriate marine HSC qualifications and short courses).	· Radio VHF and/or GMDSS · ARPA · ECDIS · Basic and/or Advanced Fire fighting · Survival · First aid and/or medical training · Human Factors / Bridge Resource Management · High-Speed Craft operations · Passenger handling · Local pilotage
Special training taking into account type, size and operational area of WIG Craft	- WIG aerodynamics and hydrodynamics - WIG construction and maintenance - WIG engines and machinery - WIG instrumentation (flight, navigation, communications, engines, etc) - WIG systems (fuel, electrics, hydraulics, air conditioning, plumbing, etc) - WIG life-saving and emergency systems and procedures - High speed, low altitude navigation - WIG seamanship - Human Factors in WIG operation (alertness, anticipation, risk awareness, etc) - Crew qualification, medical, and currency rules - Operational rules - Pre-flight checks - Crew personal human factor checks - Refuelling - Loading passengers and cargo - Distribution of weight (load bearing, inertia, and stability) - Displacement and planing modes - Take-off and landing in various conditions - Cruise flight in ground effect mode - Fly-over - Ramping and amphibian mode (for amphibian WIG) - Berthing and towing - Extreme situations - Unloading and checking - Documentation