

## Circular 2017-10: Enclosed Space Entry CIC

### Enclosed Space Entry

International Maritime Organization (IMO) adopted amendments to SOLAS Regulation III/19 which added a new requirement for mandatory enclosed space entry and rescue drills. From 1 January 2015 all persons involved in enclosed space entries, and / or assigned enclosed space rescue duties, are required to take part in enclosed space entry and rescue drills at intervals not exceeding two months.

Enclosed space entry and rescue drills should be planned and conducted in a safe manner, taking into account, as appropriate, the guidance provided in the recommendations developed by IMO. Each enclosed space entry and rescue drill shall include, checking and use of personal protective equipment required for entry, communication equipment and procedures, instruments for measuring the atmosphere in enclosed spaces, rescue equipment and procedures and instructions in first aid and resuscitation techniques.

Riyadh MoU will launch a CIC on Crew Familiarization for Enclosed Space Entry, during the period of **1<sup>st</sup> September to 30<sup>th</sup> November 2017**.

### Training

In accordance with IMO Resolution A. 1050(27), the company should elaborate a procedural implementation scheme which provides for training in the use of atmospheric testing equipment in such spaces and a schedule of regular onboard drills for crews. Only trained personnel should be assigned the duties of entering, functioning as attendants or functioning as members of rescue teams. Ships' crews with rescue and first aid duties should be drilled periodically in rescue and first aid procedures.

Training should include as a minimum:

- identification of the hazards likely to be faced during entry into enclosed spaces;
- recognition of the signs of adverse health effects caused by exposure to hazards during entry
- knowledge of personal protective equipment required for entry.

### CIC Questionnaire on Crew Familiarization for Enclosed Space Entry

PSCOs will use a list of 10 selected questions to establish that crew members with enclosed space duties are familiar with relevant equipment and have received training to carry out their duties and identify and understand the hazards associated with entry into enclosed spaces. Additionally there are questions aimed at gathering information about measures in place to test atmosphere of enclosed spaces to confirm safe entry and safety whilst persons are within the space. If deficiencies are found, actions by the port State may vary from recording a deficiency and instructing the master to rectify it within certain time period to ship detention until rectification of serious deficiencies have been rectified.

The CIC questionnaire items and relevant guidance are provided in **Appendix A** of this Circular.

### Actions required

Ship managers should implement a training and familiarization program on board vessels in order crew members involved with relevant operations to be highly trained, conducting relevant procedures safely. Crew's sufficient training will be identified by PSCO during drills and relevant CIC. Ship managers are advised, in cooperation with vessels Masters, to address all items identified in Appendix A and implement crew familiarization procedures with enclosed space entry in due time.

### Further information

- IMO MSC 350(92): **Amendments to SOLAS**
- IMO Resolution A. 1050(27): **Revised Recommendations for Entering Enclosed Spaces**
- CIC for Enclosed Space: **Article Safety4Sea**
- **SQEMARINE: Enclosed Space Entry Training Pack**

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### Annex A: CIC Questionnaire for Enclosed Space Entry

No	Item	YES	NO	N/A
Q.1	Are there measures in place to test the atmosphere of an enclosed space to confirm it is safe to enter?	<input type="checkbox"/>	<input type="checkbox"/>	
Q.2	Are crew members responsible for testing the atmosphere in enclosed spaces trained in the use of the equipment referred to in Question 1?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q.3 *	Are the crew members familiar with the arrangements of the ship, as well as the location and operation of any on-board safety systems or appliances that they may be called upon to use for enclosed space entry?	<input type="checkbox"/>	<input type="checkbox"/>	
Q.4 *	Are crew members responsible for enclosed space emergency duties, familiar with those duties?	<input type="checkbox"/>	<input type="checkbox"/>	
Q.5 *	Is the training manual available on board and its contents complete and customized to the ship?	<input type="checkbox"/>	<input type="checkbox"/>	
Q.6 *	Is there evidence on board that enclosed space entry and rescue drills are conducted in accordance with SOLAS Chapter III, Regulation 19?	<input type="checkbox"/>	<input type="checkbox"/>	
Q.7 *	Have the ship's crew participated in an enclosed space entry and rescue drill on board the ship at least once every two months in accordance with SOLAS Chapter III, Regulation 19.3.3?	<input type="checkbox"/>	<input type="checkbox"/>	
Q.8 *	Are crew members responsible for enclosed space entry aware of the associated risks?	<input type="checkbox"/>	<input type="checkbox"/>	
Q.9 *	During the CIC, the PSCO is to observe an enclosed space entry and rescue drill. Did the drill comply with the requirements of SOLAS Chapter III, Regulation 19.3.6?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Q.10	Is the ship detained as a result of a "NO" answer to any of the questions?	<input type="checkbox"/>	<input type="checkbox"/>	

### Notes

- Each question should be answered and only one box ticked for that question.
- Questions with an asterisk indicate **Code 30** may be issued.

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### Annex B: Crew familiarization for Enclosed Space Entry Recommendations on CIC Questionnaire

**Q1: Are there measures in place to test the atmosphere of an enclosed space to confirm it is safe to enter?**

**Recommendation:** Company's SMS should include procedures for entering in enclosed/confined spaces. A part of the procedure should be the atmosphere test and the limits of safe atmosphere for a person to enter the space.

**Q2: Are crew members responsible for testing the atmosphere in enclosed spaces trained in the use of the equipment referred to in Question 1?**

**Recommendation:** Training sessions to be conducted on board in order relevant personnel and crew members responsible for testing the atmosphere to be familiar with the equipment. Equipment should be inspected and calibrated in accordance with manufacturer's instructions.

**Q3: Are the crew members familiar with the arrangements of the ship, as well as the location and operation of any on-board safety systems or appliances that they may be called upon to use for enclosed space entry?**

**Recommendation:** Training sessions to be conducted on board in order crew members to be familiar with relevant equipment and PPE used for enclosed space entry. Company's SMS should include familiarization procedures for all boarded personnel and items regarding enclosed space entry instructions, procedures and equipment should be also taken under consideration.

**Q4: Are crew members responsible for enclosed space emergency duties, familiar with those duties?**

**Recommendation:** Training sessions to be conducted on board in order crew members to be familiar with their duties for enclosed space entry and rescue from enclosed space. Clear procedures to be established and posted with relevant duties during emergencies.

**Q5: Is the training manual available on board and its contents complete and customized to the ship?**

**Recommendation:** Vessels training manual to be updated in order to include sections for enclosed space entry and rescue from enclosed space.

**Q6: Is there evidence on board that enclosed space entry and rescue drills are conducted in accordance with SOLAS Chapter III, Regulation 19?**

and

**Q7: Have the ship's crew participated in an enclosed space entry and rescue drill on board the ship at least once every two months in accordance with SOLAS Chapter III, Regulation 19.3.3?**

**Recommendation:** Company's SMS to include annual drills program for all drills on board. Drill and evaluation reports and relevant permits with attached risk assessments to be available on board as evidence.

**Q8: Are crew members responsible for enclosed space entry aware of the associated risks?**

**Recommendation:** Training sessions to be conducted on board in order to familiarize crew members with enclosed space associated risks and hazards. Permits to be used in every case and relevant risk assessment forms to be used in order to mitigate the risk.

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**Q9: During the CIC, the PSCO is to observe an enclosed space entry and rescue drill. Did the drill comply with the requirements of SOLAS Chapter III, Regulation 19.3.6?**

**Recommendation:** Prior entering a port (eg during in waiting anchorage) conduct a full scale rescue from enclosed space entry drill and mark important steps during the drill such as:

1. Entry Permit
2. Risk Assessment
3. Use of PPE (SCUBA's)
4. Use of atmosphere check equipment
5. Use of life lines
6. Crew members responsibilities during the drill