



# Tank cleaning requirement for supply vessels

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## **1 Introduction**

Tank cleaning will be performed by 3<sup>rd</sup> party contractor on all OKEA locations. This manual will provide company specific requirements for execution of cleaning. If the performing company or vessel has stricter requirements for execution, these shall override OKEA requirements. This manual acts as a supplement to OKEA Marine manual

### **1.1. Purpose**

Provide vessel master and waste contractors with minimum OKEA requirement for execution of tank cleaning.

This document defines minimum OKEA requirements and does not supersede vessel own management system, unless information in this document exceeds vessel requirement at any time

### **1.2. Responsibility**

Marine TA is responsible for content and updating this document

## **2 Requirements for working on the vessel**

### **2.1. PTW, Risk assessment and toolbox talk**

The vessel PTW system shall always be governing.

Before work commences, all personnel involved in operation shall attend a toolbox meeting, where a risk assessment is to be carried out, and other important information relevant for operation should be highlighted for.

New risk assessment must be held before new shift commences operation.

All participants shall sign an attendance sheet, which are subject for submittal to OKEA upon request.

### **2.2. Personal protective equipment**

Minimum PPE requirements for working on vessel shall as minimum follow Appendix 4-A in G-OMO and be part of risk assessment and toolbox talk. OOW which leads the TBT shall confirm appropriate PPE for participants

### **2.3. Atmosphere measurement**

Measurement should be taken, and values shall not exceed:

- Hydrocarbons LEL 1%
- Oxygen 20,9%
- H<sub>2</sub>S 0 ppm

Continuous atmosphere testing is required during entire operation.

### **2.4. Manning**

Minimum manning level shall be:

- Two persons inside tank
- One Watchman outside manhole
- One watchman on quayside

### **2.5. Method of communication**

The method of communication between the personnel inside the tank, lookout and bridge shall be clearly defined, and be maintained throughout the operation. This should be documented and be a part of the TBT prior to commencement. Alternative/back-up communications shall also be included.

### **2.6. Other safety precautions**

- Deck must be clear to provide good escape routes from the tank in event of emergency. Where this is not possible, the areas adjacent to the tanks to be cleaned must be clear to allow easy access.
- All fall arrest equipment to be used when ascending and descending ladders into the tanks. Where there is a requirement for the erection, use or dismantling of scaffolding, scissor hooks should be used in conjunction with fall arresters

### 3 Activity and Responsibilities

ACTIVITY AND RESPONSIBILITIES		OKEA Marine	Contracted compan	Vessel	Officer on duty	Tank cleaning supervisor	Tank cleaning personell
Task definition							
1	Call of requirement for tank cleaning: Provide contractor with: <ul style="list-style-type: none"> <li>• Estimated time of commencement</li> <li>• Previous or tank content</li> <li>• Number and size of tanks</li> <li>• Required standard of cleaning</li> <li>• Berth/location</li> </ul>	E					
2	Feedback: <ul style="list-style-type: none"> <li>• Confirm request</li> <li>• Confirm personell for task</li> <li>• Inform of any deviations</li> </ul>		E				
3	Open manholes and erect barriers & Warning signs in due time before scheduled tank cleaning commencement			E			
4	On arrival – Attend bridge for inforation and instructions					E	
5	Confirm: <ul style="list-style-type: none"> <li>• Tanks to be cleaned</li> <li>• Tank cleaning checklist (Vessel and tank cleaning company)</li> <li>• Permit to work</li> <li>• Review risk assessment</li> <li>• Waste paperwork</li> <li>• Appropriate MSDS is available</li> </ul>					E	C
6	Isolate tank equipment			E			
7	Sign and participate in TBT Shall be attended by all involved personell!				E	C	C
8	Execute atmosphere measurement and issue work permit				E	A	
a9	Report to OKEA Marine status every 12-hour				E	C	O
10	Shift changeover – Sign out PTW. Onsigning crew require new TBT, PTW as pr point 7 and 8				E		
11	Inspect tank and confirm condition. Sign out PTW and report to OKEA Marine				E		



## 4 Additional Information

This manual will be subject to regular revision. Comments and suggestions from all readers are welcomed. If you wish to submit comments, please direct all feedback to [okea.marineops@okea.no](mailto:okea.marineops@okea.no) – mark topic with “Feedback marine manual”

### 4.1. Abbreviations

HSE	Health, Safety and Environment
PTW	Permit to work
TBT	Toolbox talk
N/A	Not Applicable

### 4.2. Changes from previous version

Rev. No.	Date	Sect. No.	Changes from previous version
1.0	20.09.22	All	First edition. Extract from Marine manual

### 4.3. References

OKEA-LOG-MAN-0250 Marine Manual