

# JTSB Digests

JTSB (Japan Transport Safety Board)

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## Digest of Marine Accident Analyses

### For prevention of “Fatal and Injury Accidents Related to On-Board Works”

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#### 1. Introduction

In recent years, we have seen many fatal and injury accidents to crew and shore workers carrying out such works as repairing, stevedoring and cleaning on vessels, in connection with the structure, equipment or operation of vessels. The main factors contributing to the occurrence of these accidents include properties of cargo on board, existence of enclosed space and hazardous zones and failure of such equipment as cargo lifting appliances.

In particular, with regard to those works on vessels at anchor or at berth with a risk of explosion or other accidents to persons, it is necessary to take preventive measures taking into consideration the current safety issues in the industries concerned and the nature of the vessel as a working environment. These accidents occurred in relation to factors unique to the vessel operation on cargo ships or dangerous goods carriers, such as cargo lifting appliances, hazardous substances in tanks and oxygen level in cargo holds, and what are behind these accidents include the situation that shore workers may possibly have started working without full knowledge of the particularly dangerous working environment on vessel and are not well trained for avoiding risks associated with the work.

In view of these ongoing situations, we present some case studies of serious accidents investigated by the Board and various statistical data aiming at a digest featuring fatal and injury accidents related to on-board works for prevention of similar accidents.

We hope that this digest will be on various occasions such as safety seminars held by the parties concerned, and will be able to contribute to the improvement of safety at sea.



※ The definition in this digest of “Fatal and injury accidents related to on-board works”:  
Accidents which occurred while working on a vessel, involving death or injury of a person in relation to the structure, equipment and operation of the vessel, excluding, accidents which occurred to fishing vessels during their operation.