



CJA Marine Services - Singapore & Thailand

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GUIDE TO SAFE OPERATION OF SHIP'S CRANE

TO THE MASTER OF _____ DATE _____

1.0 USE OF SHIP'S CRANE

The Master should ensure that any lifting equipment (i.e. lifting appliance plus lifting gear) used on board ships shall be of good design, of sound construction and material, of adequate strength for the purpose for which it is used, free from patent defect, properly installed or assembled and properly maintained.

Ships' cranes should be properly operated and maintained in accordance with manufacturers' instructions and the Master should ensure that sufficient technical information is available including the following information:-

- Length, size and safe working load of falls and, where appropriate, topping lifts.
- Safe working load of all fittings;
- Boom limiting angles;
- Manufacturers' instructions for replacing wires, topping up hydraulics and other maintenance as appropriate.

Power operated rail mounted cranes should be provided with an efficient braking mechanism which will arrest the motion along the rails.

In deciding whether a lifting appliance is of adequate strength for the purpose for which it is to be used, account should be taken of the weight of the associated lifting gear, and whether the gear is likely to impose additional stresses by virtue of the nature of the operation, e.g. grab.

Safety devices fitted to the ships' crane should be checked by the operator before work starts and at regular intervals thereafter to ensure that they are working properly.

The Master shall ensure that any one trip sling, pre-slung cargo sling, or any pallet or similar piece of equipment for supporting loads or lifting attachment which forms an integral part of the load shall not be used unless it is of good construction, of adequate strength for the purpose for which it is used and free from patent defect.

Except for the purpose of carrying out a lifting test, The Master shall ensure that the ship's crane is **NOT** loaded in excess of its safe working load.

Further, no person should the ship's crane unless he is trained, competent and has been authorised by a responsible ship's officer.

2.0 CARGO INFORMATION

Sufficient information about the cargo should be provided to the stevedores and/or operator in order for them to properly plan the handling of the cargo.

3.0 MASTER'S INSTRUCTION TO SHIP'S CRANE OPERATOR(S)

The Master should provide a standing instruction for operating ship's crane to the appointed Operator. Details of the instructions should include but not limited to the following:-

- a) Operator must be licensed and should be familiar with Ship's Crane Technical Data and General Operational Instruction;
- b) Operator must ensure that the weight of cargo being hoisted must not exceed the hook/grab capacity of the crane. While hoisting the cargo, lifting cable / wire should be in vertical position. The side pull angle must not exceed 5 degrees. **Dragging** of the cargo is **strictly prohibited** especially from under coaming spaces;
- c) The use of forklift(s) or appropriate equipment should be used to facilitate the discharge operation;
- d) Operator should take precaution & ensure that ship's structures are not damaged due to contact with cargo, hook, slings or grab;
- e) Operator must ensure that the fall lines, shackles, hook block or grab, shackles or any other parts of the crane **do not** touch, rub or strike against any parts of the ship's construction/equipment like hatch coamings, hatch covers, ship's railing, etc. to avoid possible damage (please see figure 1.0 on page 3);
- f) In case of any audio or visual alarms noted or experienced as well as any irregularities in the ship's crane operation, the operator shall immediately report to ship's Officer of the Watch; and
- g) Operator must keep in mind that limit switches are for safety matters only and must not be used for operating with the cranes. Therefore, they should reduce speed or stop the movement of crane's working gears when approaching to limits.

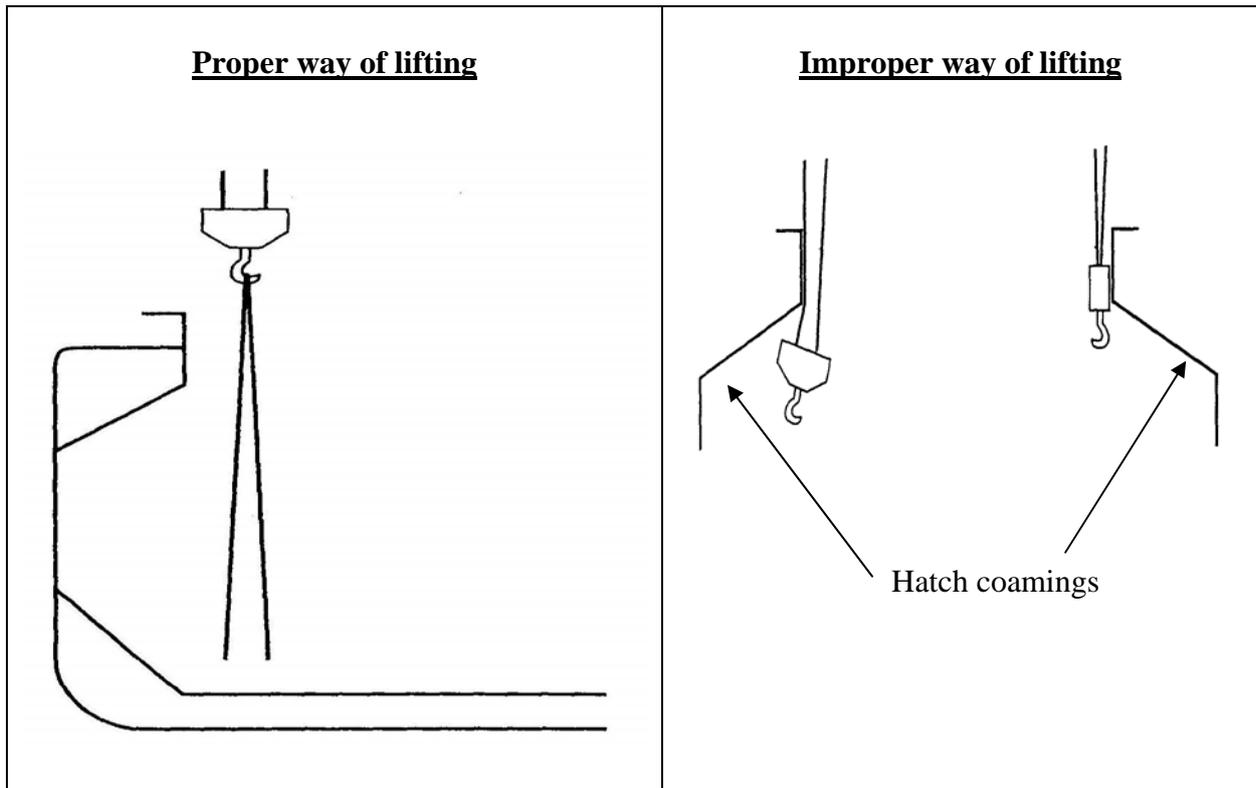


FIGURE 1.0

**Acknowledged by
Master / Chief Officer**

**Attending Surveyor
For and On Behalf Of
CJA Marine Services (Thailand) Co. Ltd**

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