

Portershoek Quarry	<p style="text-align: center;">SAFETY HEALTH AND ENVIRONMENTAL MANAGEMENT SYSTEM (Doc No. 7.5.1.26)</p>	<p>Effective Date: 15 May 2021 Rev.: ISO 45001 Date Reviewed: Page: 1 of 3</p>
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## Lifting Machines & Tackle

### 1 Purpose

To ensure that lifting machines and lifting tackle are safe for use and operated by competent persons.

### 2. Scope

This procedure is applicable to all employees and sub contractors working at the mine.

### 3. Reference Document

OHS Act,  
Persons responsible for lifting equipment appointment  
Lifting equipment registers for;

- Wire ropes and slings
- Chain slings
- Nylon and fibre slings
- Chain blocks, hi-ab, cranes and winches
- Portable jacks and stands

### 4. Terms and Definitions

Competent person - Means a skilled person designated by the Plant Manager or certified by the Training Center to operate, use, inspect or test equipment.

Lifting machine means any crane, crab, winch, pulley block, chain block, forklift or similar appliances.

Lifting tackle means any chain sling, rope sling, ring, hook, shackle, swivel, spreader, shear legs or similar appliances

### 5. Procedure

#### 5.1. Training and authorization of users

- All persons operating any type of lifting machinery or lifting tackle shall be trained by an accredited training organization or the Training Center.
- Only persons who have valid pit licenses will be permitted to operate mobile cranes.
- Only competent persons are permitted to operate lifting equipment.

#### 5.2. Condition of lifting machines

- No hydraulic leaks are permitted on any lifting machine.
- All operating controls shall be properly identified and labeled.

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- Mobile cranes shall have not less than two hydraulic outriggers to support the crane. Hydraulic legs must have handles fitted to pull and push.
- The maximum Safe Working Load (SWL) shall be indicated on the working boom, overhead crawl beam and the actual lifting device.
- All hooks shall be fitted with a safety latch.
- Lifting ropes and rope drums shall be inspected prior to operation.
- Lifting machines and tackle shall be inspected once a month and the findings recorded in a register.

### 5.3. Lifting tackle and lifting machinery

- All lifting gear shall be maintained in a good condition.
- All lifting gear shall be identified and logged in the register.
- When lifting tackle is not in use, it will be properly stored away in a safe, dry and secure place.
- Only a competent person, such as the plant foreman or person appointed, may inspect lifting gear.
- All chain slings, steel ropes, hooks, shackles will be inspected once a month.
- All hooks shall have three pop-marks, which shall be measured monthly and the findings recorded into a logbook.
- Should any sign of spread on the hook be detected, the hook shall be discarded and replaced with a new hook.
- All hooks shall be equipped with safety latches and shall be in good working order.
- The maximum safe working load shall be indicated on all lifting tackle.
- Under no circumstances shall lifting tackle be used when not in a good working order.
- No wires or ropes must be used to do hoist work.
- The load as indicated on the lifting tackle shall not be exceeded.
- All lifting machine and tackle shall be tested and certified annually by an accredited inspection authority.
- When working on vehicles, the vehicle must be locked out as per the lock out procedure.
- The hook may not be used on its own to lift equipment. Proper lifting tackle must be used.
- When lifting equipment, use the correct type of lifting points if available.
- Items to be inspected as follow ;

Chains or ropes where applicable  
Number of identification  
Wear  
Corrosion  
Kinks  
Fatigue  
Break of wire or stretch  
Drying of lubricant  
Mechanical abuse  
Storage

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Splice thimble  
Hooks  
Spread of throat opening  
Safety latch  
Maximum load marking

#### 5.4 General

- No home made slings or any other lifting devices may be used unless approved by the Plant Manager
- Shackles must be used to bold down slings, chains too laden freight.
- No person is allowed to stand underneath a laden freight.

#### 6. Responsibility

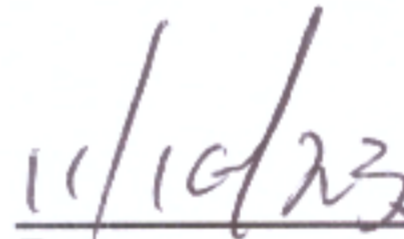
- Inspector of lifting equipment and tackle.
- Supervisor and users of equipment.

#### 7. Records

- Lifting Equipment and Tackle checklists results must be kept on file.



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Site Manager



\_\_\_\_\_  
Date