

# Working with Cranes and Lifting Equipment

Principal Hazard Standard (Template)

<insert document number>

EHSQ Management Systems

**1.0 PURPOSE**

The purpose of this standard is to minimise the risk of incidents, injuries, fatalities and equipment damage resulting from Lifting Operations.

**2.0 SCOPE**

This Principal Hazard Standard applies to all <Insert Company Name> controlled sites, its joint venture operations, employees, contractors and visitors and is subject to the requirements of other <Insert Company Name> HSE Standards and applicable health and safety legislation.

**3.0 DEFINITIONS**

Term	Definition
Competent Person	A person, who has, through a combination of training, education and experience, acquired the knowledge and skills to enable that person to perform a specified task correctly.
Crane	An appliance intended for raising or lowering a load and moving it horizontally and: <ul style="list-style-type: none"> <li>○ Includes the supporting structure of the Crane and its foundations.</li> <li>○ Does not include fork lifts earthmoving machinery, tractors, industrial robots, conveyors, building maintenance equipment, suspended scaffolds or lifts.</li> </ul>
Critical Lift	Any lift that: <ul style="list-style-type: none"> <li>○ Exceeds a gross weight of 20 tonnes (including all lifting / rigging gear), or</li> <li>○ Requires two or more Cranes,</li> <li>○ All dual lifts regardless of the lifting method/device</li> <li>○ Is a lift over any live or operational plant, which has not been isolated</li> <li>○ A lift that exceeds 80% of the Cranes rated capacity in any given configuration, or</li> <li>○ Requires personnel to work from a work basket while suspended from a crane, or</li> <li>○ The item to be lifted requires exceptional care in handling because of size, weight, close-tolerance installation, high susceptibility to damage or other unusual factor, or</li> <li>○ The item, although non-critical, requires exceptional care in handling because it is being lifted above a critical item, or</li> <li>○ Requires the combination of chain blocks, come alongs, slings and chains to effect the lift</li> </ul>

	of best practice industry experts
Rigger or Dogman	Persons competent and authorised to apply slinging techniques, including the selection and inspection of lifting accessories and directing the crane operator in the movement of the load, including walking the load and/or when the load is out of view of the operator
Telescopic Handler	A multi-functional integrated tool carrier with a telescopic boom
Tower Crane	A boom or jib crane mounted on a tower structure
Tag Line	Rope connected to load which will help ensure stability and control of the load during the lifting operation
Vehicle Hoist	A vehicle-hoisting device, the purpose of which is to provide accessibility for convenient under-chassis examination or service
Work Box	A personnel carrying device designed to be attached directly to the boom of an integrated tool carrier or telescopic handler for the purpose of providing a work area for persons raised and working from the basket.
Man Cage	A personnel carrying device designed to be suspended from a crane for the purpose of providing a working area for persons elevated by the crane and working from the box.

#### 4.0 ACCOUNTABILITY AND RESPONSIBILITY

Accountable Managers are responsible for communicating the requirements of this standard to their teams and for ensuring compliance with the minimum guidelines of this standard.

#### 5.0 PERFORMANCE REQUIREMENTS

##### 5.1 Risk Assessment

- a. A formal risk based selection and acceptance process shall be followed to ensure the suitability of all Cranes and Lifting equipment intended for use on <insert Company Name> work sites.
- b. All <insert Company Name> sites shall undertake a formal risk assessment which considers all risks associated with Cranes and Lifting equipment. Significant risks shall be documented in the site risk register.
- c. Risk assessments shall at a minimum consider:
  - I. Legislative requirements.
  - II. Exclusion zones and the requirement to eliminate personnel from the line of fire; i.e. being stuck by Crane or load, or personnel being trapped between moving or stationary objects. Barricades or guarding shall be installed where necessary.
  - III. The procurement and selection process for the Cranes and lifting equipment to be used.
  - IV. Required maintenance, inspection, tagging, storage and record keeping of all Cranes and Lifting Equipment. Including classified plant register
  - V. Requirements for critical lifts.