

# Installation of Package Air Conditioning Units

## METHOD STATEMENT

PROJECT TITLE –

Company		Department	Safety & Health
Title	Scaffold Safe Work Method Statement.	Rev.No	00

# Installation of Package Air Conditioning Units

## **Introduction**

Lifting of objects generally takes place at construction sites, practice and correct lifting methods can move large objects efficiently, safely and reduce manual handling operations. Incorrect lifting methods however, can lead to major accidents and fatalities. The process of carrying out correct and safe lifting operations involves a range of requirements which must be considered during the planning of any lifting operation.

## Scope

Besides reiterating the key responsibilities of those involved in a lifting operation, these set of guidelines offer further guidance for the organization, assessment, planning, implementation, and management of change and the development of safe systems of work for lifting operations. It is not a definitive document and does not describe in any detail the individual requirements of a particular lifting operation or piece of lifting equipment.

In order to assist stakeholders in the development of a comprehensive lifting plan, the guidelines should be used as a reference, to aide managers, competent personnel responsible for lifting operations, lifting equipment and employees to consider the safety factors when they assess, plan, supervise and carry out lifting activities. Managers who use or hire in lifting equipment must ensure their service specific procedures regarding lifting operations and lifting equipment links to and follows the requirements as outlined in these guidelines.

## Objective

Planning is an essential component in every lifting operation at all workplaces. In line with the Workplace Safety and Health Act, reducing risk at source is one of the components to improving workplace and worksite safety. To address risk at source, there is a need to look at whom and what creates the risks, every effort should then be made to eliminate or minimize such risks to the lowest possible levels.

The risks inherent in the planning of all lifting activities are required to be addressed, with mitigating actions identified and implemented. Additionally, accidents are often as a result of either poor planning or lack of communication between or among stakeholders, this sometimes resulting in loss of vital information that is fundamental to the safety of the operation. The process to ensure transfer and communication of all relevant information and documents is therefore recorded in the Lifting Plan. Essentially, No Plan - No Lift!

## Site Survey

It is essential that a survey be conducted to establish what the load to be lifted is, what all the characteristics are, weight, size, type of lifting lugs etc., what the ground conditions are, where it has to be lifted from and to, what the access route is like, etc. The survey must be completed by a competent person(s).

## Risk Assessment

The site survey is an ideal time to begin a risk assessment of the proposed lifting operations that will be carried out. The aim of the risk assessment is to prevent incidents and/or accidents that arise from hazards\* during the lifting operations. With the identified hazards, the risks^ posed by these hazards can be reduced to as low as reasonably practical through the

Implementation of control measures, using the principle of the hierarchy of controls.

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Requirements to install and lifting air conditioning unit.

- The lift capacity will be 100 tons and the length of the arm is 45 meters and according to the table below, the lift capacity is sufficient to lift the air conditioners on the roof of the building to the station.

	PACU UNIT MODEL	SARVES AREA	Net weight KG
1			
2			
3			

PACU UNIT for .....

- The air conditioners (Package unit) will be lifting to the roof by a mobile crane that is suitable for the weight of the Package unit and the height of the building.
- The mobile crane must be prepared with full safety protection, and the crane operator must have a certificate (TUV) in the crane operation.
- In the area where the crane is to be stopped, it must be free from any obstacles that obstruct the lever movement in all directions. The safety engineer must be in the workplace to take the necessary action.
- In bad weather conditions, the crane should not be allowed to operate until the weather is suitable for lift operation.
- When lifting the equipment, there must be a person authorized he have certificate) Rigger 1( .of giving guidance to the driver of the crane to avoid any errors in the direction.

- Air conditioning foundation should be suitable for the size and area of the equipment.
- Vibration insulators shall be installed on the foundation and shall be suitable for weighing the devices to reduce the vibrations resulting from the work of the equipment.
- The equipment shall be distributed on the foundation according to drawings approved by the consultant
- The crane will be inspected before start lift the PACU units are raised on the roof of the building, in terms of lifting space and the distance between the building and the ability of crane to reach in the PACU unit foundation in the roof.
- The lifting for the PACU unit will be in the three areas which are near for the foundation for the PACU unit as per the figure shown below.

