

Logo	Crane Lifting Plan	<b>Doc Ref #:</b> XYZ/IMS/QHSE/F/00 <b>Issue Date:</b> DD-MM-YYYY <b>Rev #:</b> 00 <b>Page 1 of 7</b>
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## 1. Introduction

The crane use planning is a complex process that is divided into two broad categories which are listed below for better understanding;

- Plan – Lifting with crane
- Daily safety review of crane and equipment

## 2. Authorization & Submission

A crane lifting plan is required for every lifting process in every project. Critical crane lifting process is always authorized by competent person after review of critical lifting planning. As per OHSA, the lifting plan is to be submitted 48 hours before crane mobilization. If it is critical lifting then the organization is liable to submit the plan 5 days earlier. One lifting plan is valid for more than one day if there is no change in plan or preparations made for emergency situation. If there are multiple locations where lifting activity is taking place, use multiple plans because method, equipment, hazards and associated risks vary location to location.

## 3. Lifting Equipment and Standards

The lifting equipment, devices and rigging devices should come with the name of manufacturer. Work Load Limit (**WLL**) of each equipment and device should be identified on it and be certified with certificates available whenever requested.

The devices and equipment should be inspected by the authorized inspector and ensure they stamp the certificate to comply with the legal obligation.

## 4. Other Requirements

- 1) On the worksite situation changes rapidly and unexpected activity takes place. If there is any activity that is not anticipated in the crane lifting plan but may arise due to site condition must be review in advance before commencement. The examples of these sudden activities are Moving equipment, loading and unloading of material etc.
- 2) The contractor/sub-contractor who is providing crane lifting services is liable to visit the site before commencement of job. By law he is liable to check;
  - Site, setup location if it is fragile, hard or soft soil
  - Check the certificate of crane and lifting accessories and ensure they are valid
  - Check the operator's certificate
  - Check the rigger's certificate
  - All the workers involved in the work activity are trained and have knowledge of associated hazards and how to counter them e.g., rigging, signaling, crane helper etc.

## 5. Sub-contractor's Responsibility

Subcontractor who is providing the **Lifting Services** is responsible to provide the following documents/information;

- Competent persons with training and medical certificates
- The operator of the crane should be licensed
- Load chart of crane
- Range chart
- The crane should have beacon light, Safe Load Indicator (SLI) and Load Movement Indicator (LMI)
- 3<sup>rd</sup> party inspection certificate of the crane, lifting accessories, MPI of the crane hook as well as Emission Certificate
- Lifting and wind information
- Crane dimensions and movement area

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**Note: The lifting activity shall take place under the Site HSE & Loss Prevention Program!**

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Project Name		Lifting Plan Ref #			
Site Name/Number		Date of Lifting		Lift Location	
1. Lifting Responsible Person					
1.1 Subcontractor Name		1.2 Contact #		1.3 Sub-contractor ID	
1.4 Operator Name		1.5 Operator #		1.6 Rigger Name	
2. Crane & Lifting Accessories Information					
2.1 Crane Maker		2.2 Crane Model & Type		2.3 Crane Capacity	
2.4 Crane Registration #		2.5 Crane & Lifting Accessories 3 <sup>rd</sup> Party Certificate Validity Date			
		Crane:		Lifting Accessories:	
2.6 Carrier Information		2.7 Boom Information		2.8 Jib Information	
<input type="checkbox"/>	Truck Mounted Crain	Telescopic <input type="checkbox"/>	Latics <input type="checkbox"/>	Jib Deployed?	Yes <input type="checkbox"/> No <input type="checkbox"/>
<input type="checkbox"/>	Rough Terrain Crain	Block capacity:		Fixed Jib <input type="checkbox"/>	Luffing Jib <input type="checkbox"/>
<input type="checkbox"/>	All Terrain Crain	Parts Line #:		Block capacity (tons):	
<input type="checkbox"/>	Crawler Crane	Line Pull (lbs.):		Parts line #:	
<input type="checkbox"/>	Other	Boom Length:		Line Pull (lbs.):	
		Boom Light/beacon:		Jib Length (ft):	
2.9 Boom & Jib combined length:					
2.10 Does it involve any: (Tick the box)					
$\geq 75\%$ capacity chart <input type="checkbox"/>		Two Hooks <input type="checkbox"/>		Moving over public space <input type="checkbox"/>	
Dual Crane use if critical lifting <input type="checkbox"/>		Traveling with lifted load <input type="checkbox"/>		Working near HV power lines <input type="checkbox"/>	
Personnel Basked <input type="checkbox"/>		Tripping Load <input type="checkbox"/>		others <input type="checkbox"/>	
2.11 Power Line Encroachment Review & Mention Any Permit from Government – if Applicable					
2.12 Max working radius (ft)			2.13 Plus, $\frac{1}{2}$ length of load (ft)		
2.14 Max working boom tip elevation (assembled) in ft					
Will max working radius (plus $\frac{1}{2}$ length of load) be within 20' of an overhead power line?				Yes <input type="checkbox"/>	No <input type="checkbox"/>
Will max vertical boom elevation exceed 200' above existing site elevation?				Yes <input type="checkbox"/>	No <input type="checkbox"/>

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2.15 If yes provide power line voltage and Job Hazard Analysis

2.16 Outrigger Configuration/ Distributed Load

Fully Extended <input type="checkbox"/>	Fully Retracted <input type="checkbox"/>	Intermediate <input type="checkbox"/>	Rubber (PSI) <input type="checkbox"/>
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Crane cribbing dimensions?

Distributed Ground Bearing Pressure?

2.17 Crane Condition

Has crane been inspected within 3 months of last annual inspection?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Is crane a lattice boom?	Yes <input type="checkbox"/>	No <input type="checkbox"/>

3. Itemization of Crane Chart and Load Deductions

S/#	Category	Weight (lbs.)	Comment
1	Weight of heaviest load		
2	Rigging		
3	Jib		
4	Jib Hook		
5	Hook Block		
6	Load Limit		
7	Other		
8	Gross Deduction		

4. Lifting Work Summary

Max Work Radius	Boom Angle	Gross Deduction	Chart Capacity	% of Capacity (Gross Deduction / Chart Capacity)

5. Load Characteristics

Will this crane lifting plan will cover multiple picks?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
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5.1 Description of the load(s) creating highest % of capacity (i.e., worst case load)

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Dimensions of load(s) creating highest % of capacity (height x width x length): Other dimensions as follows:	
5.2 Weight of load creating highest % of capacity (lbs.)? – Tick the correct box	
Calculation provided with rigging diagram <input type="checkbox"/>	Manufacturer product data sheet provided <input type="checkbox"/>

5.3 How will center of Gravity (CoG) of the load be determined?		
Manufacturer's Data Sheet – Provide Evidence <input type="checkbox"/>	Calculations-Provide Evidence <input type="checkbox"/>	In Field – Explain <input type="checkbox"/>

5.4 Will any load be suspended?		
No <input type="checkbox"/>	Yes – Explain below <input type="checkbox"/>	

6. Rigging information		
List rigging components with details of: Manufacturer, number of pieces, description, size, length, capacity and component weight.		

As Per OSHA 29 CFR 1910.251 (a)(4) requires all the equipment should be engineered for the job and tested.		
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8	Rigging Diagram – Provide Evidence

7. Workplace Location and Work Area Vicinity Clearance	
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7.1	Provide a scaled plot of the crane's location at the workplace followed by the structure around the work place e.g., buildings, overhead power cables, onsite traffic routes and management, obstructions in the view or within the load swing radius and direction etc.
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7.2	Provide a scaled lifting elevation plan to show the adjacent structure and load. See Attachments below;	
Attachment 1	Attachment Name	Attachment Ref #

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Attachment 2	Attachment Name	Attachment Ref #
Attachment 3	Attachment Name	Attachment Ref #
Attachment 4	Attachment Name	Attachment Ref #

7.3	Horizontal distance between crane's center pin to nearest structure in the vicinity?		Ft
	Minimum clearance from load to highest point of the structure during a lifting activity?		Ft
	Minimum distance from boom to the intended load during a lifting activity?		Ft
	Minimum clearance from boom to highest point of structure during a lifting activity?		Ft
7.4	The Actual Work Area and Documented Information has been reviewed during developing of this Crane Lift Plan?		
No further Information is required?		Yes <input type="checkbox"/>	No <input type="checkbox"/>
Following Information is required?		Yes <input type="checkbox"/>	No <input type="checkbox"/>
If Further Information is required, mention below;			
7.5	Will the crane setup or load area be within zone of influence of foundation or underground facility?	No <input type="checkbox"/>	Yes <input type="checkbox"/>
If Yes, Explain here:			
7.6	What signaling Methodology is adopted for Crane Lifting Purpose?		
A	Hand signaling		
B	Wireless Communication Set		
C	Wireless Communication Set with Hands Free Radio for Operator		
D	Other Methods – Please Explain below		
Any Non-Compliance With Any Part Of This Lift Plan Will Lead To The Immediate Termination Of Work And Possible Permanent Removal From Site.			

<b>8. Signatures</b>	
Crane Company Name	

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Responsible Person Name & Designation	
Signatures	
Sub-Contractor Name	
Responsible Person Name & Designation	
Signature	

Crane Company Stamp	Sub-Contractor Stamp

Date: \_\_\_\_\_