

# CRANE LIFT PLAN ASSESSMENT

A lift plan must be developed in advance of any critical high-risk lifts and shall consider:

- Appropriate sizing/selection of the lifting device(s) for the planned loads.
- Measures to eliminate unnecessary personnel, vehicles and other plant from the lift zone.
- Environmental factors, such as overhead power lines, underground culverts, utilities, drains and other structures in the vicinity.

All persons on site that will be affected by the lift and crane operation must be formally instructed on the safe work procedures.

Worksite Location:		Date:	
Crane(s) to be used:			
Registration No:			
Inspection Certificate No:		Do	
Operator:			
Competent Person:			
Task:			



**SAMPLE**

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<b>Lift Details</b>	
Estimated Mass (including hoist)	
Lift Height (m)	
Lift Width (m)	
Lift Length (m)	
Off Balance (m)	
Proposed Lift Height (m)	
Proposed Boom Height (m)	
Proposed Crane Capacity at Height	
Proposed Crane Capacity at Height	
Proposed Counter Weight	
<b>Equipment Details</b>	
Lifting Hook Rating	
Crane Rating	
Wing Rating	
Hoist Rating	
Other Equipment	

**Description of Any Possible Interaction with Other Activities on Site**

**Controls to Eliminate or Minimize Interaction with Other Activities on Site**



**SAMPLE**

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Name of Activity

Name of Activity

Activity Start Date

Other

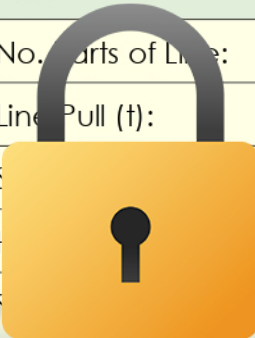
**This Section Must Be Completed for All Classes High Risk Class 2B**

Activity Name	Class 1	Class 2	Class 3
1. Maximum Capacity (lb)			
2. Type of Material (e.g., concrete)			
3. Number of Loads			
4. Maximum Length (ft)			
5. Attachments			
6. Hoist (ft)			
7. Counterweight (lb)			
8. Hoist Configuration			
9. Operating Time (min)			
10. Total of class			

11	Line Pull (t):			
12	Size of Cable (mm) / Cap. (kN):			
13	Hook No. and Type:			
14	SWL (t):			

**Aux Hoist**

15	No. Parts of Line:			
16	Line Pull (t):			
17	Size of Cable (mm) / Cap. (kN):			
18	Hook No. and Type:			
19	SWL (t):			



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<b>Load</b>				
(1)	Mass of object to be lifted (t)			
(2)	Mass of cable (t)			
(3)	Mass of Main Hook (t)			
(4)	Mass of Aux. Ho. Hook (t)			
(5)	Rigging (t)			
(6)	Ho. cable weight (t)			
(7)	Ho. cable weight (t)			
<b>Multiple crane factor - Minimum crane capacity percentages applicable to as below</b>				
<b>(a) For two cranes - 20 percent greater than the calculated mass of the load</b>				
<b>(b) For three cranes - 25 percent greater than the calculated mass of the load</b>				
<b>(c) For four or more cranes - 30 percent greater than the calculated mass of the load</b>				
(8)	Crane (t) of crane (t)			
(9)	Mass (t) (t)			
(10)	Crane			
(11)	Crane (t)			
(12)	Mass (t) (t)			
(13)	Crane (t)			
(14)	Mass (t) (t)			

33	Pressure = [31] ÷ [32] (t/m <sup>2</sup> ):			
34	Lifting Frame / Beam SWL (t):			
35	Shackles SWL (t):			
36	Wire/Round/Flat Slings SWL (t):			
37	Chain/Dia/Angle SWL (t):			
38	Lifting Points, Direction (t):			
39	Slings/Other SWL (t):			



**SAMPLE**

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1	Working	
2	Lift height	
3	Wind	
4	Weather	
5	Mobile	

**Other - Diagram**

Please attach the most up-to-date the following details:

- Crane manufacturer
- Hoist manufacturer
- Capacity of hoist
- Working load limit and attachment
- Lifting certificate

**Hoist - Diagram**

- Capacity and weight of power line, structure and other items etc.
- Boom length and angle (if applicable)
- Lifting over the structure, ensure to complete an accurate assessment of the height of the structure to be lifted over.

**Note:** Any hoists identified that are not listed must be added and assessed and certified as they must be taken into consideration for the lift.

Be sure to indicate the clear direction of loads in the diagram.



# SAMPLE

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