

# Calculator for analyzing lifting operations

Company

Evaluator

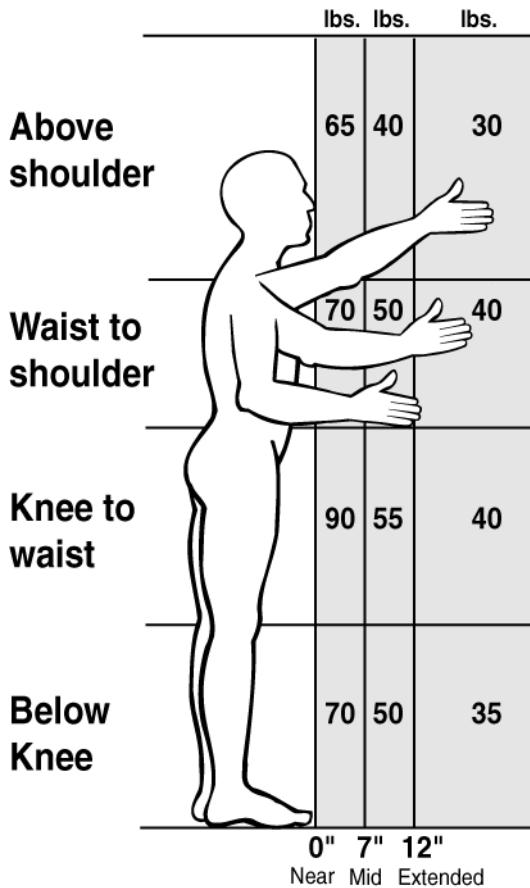
Job

Date

**1** Enter the weight of the object lifted.

<b>Weight Lifted</b>  <b>lbs.</b>
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**2** Check the box on a rectangle below that corresponds to the position of the person's hands when they begin to lift or lower the objects.



**3** Check the number that corresponds to the times the person lifts per minute and the total number of hours per day spent lifting.

Note: For lifting done less than once every five minutes, use 1.0

How many lifts per minute?	How many hours per day?		
	1 hr or less	1 hr to 2 hrs	2 hrs or more
1 lift every 2-5 min	1.0	0.95	0.85
1 lift every min	0.95	0.9	0.75
2-3 lifts every min	0.9	0.85	0.65
4-5 lifts every min	0.85	0.7	0.45
6-7 lifts every min	0.75	0.5	0.25
8-9 lifts every min	0.6	0.35	0.15
10+ lifts every min	0.3	0.2	0.0

**4** Check 0.85 if the person twists more than 45 degrees while lifting. 0.85

Otherwise Check 1.0

**5** Insert below the numbers you have checked in steps 2, 3, and 4.

$\frac{\text{lbs.}}{\text{Step 2}} \times \frac{\text{Step 3}}{\text{Step 3}} \times \frac{\text{Step 4}}{\text{Step 4}} =$	<table border="1"> <tr> <td style="text-align: center;">Lifting Limit</td> </tr> <tr> <td style="text-align: center;">_____ lbs.</td> </tr> </table>	Lifting Limit	_____ lbs.
Lifting Limit			
_____ lbs.			

**6** Is the Weight Lifted (1) less than the Lifting Limit (5) Yes – OK  
No – HAZARD



Note: If the job involves lifts of objects with a number of different weights and/or from a number of different locations, use Steps 1 through 5 above to:

- Analyze the 2 worst case lifts—the heaviest object lifted and the lift done in the most awkward posture.
- Analyze the most commonly performed lift. In Step 3, use the frequency and duration for all the lifting done in a typical workday.