

THE PROFESSIONAL RIGGER

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TECHNICAL WORKSHOP

Find CG by Test Lift

With 4 quick lifts, raising the load only a few inches, a rigger can confirm:

- a) The load's estimated weight.
- b) The load's approximate center-ofgravity (CG).
- c) The approximate load at each pick point.

At the right, please find the approximate weight and the location of the CG. Check your answers at the bottom of column 3 on page 2.

Bonus: Can you calculate the loading at each corner? E-mail mike@wrrc.com with your answers to see if you're right.

The workshop at the right was taken from Mike's Rigging Mysteries, Yellow Book.

All 110 workshops are available at: www.mikesriggingmysteries.com.

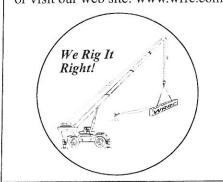
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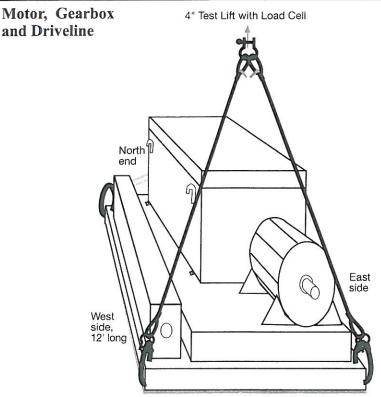
It is distributed to those whose occupations require the safe and proper use of lifting and rigging equipment.

For more information contact The Professional Rigger

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or visit our web site: www.wrrc.com





South end, 6' wide

Determine the approximate location of the load's CG based on the four test lifts noted below.

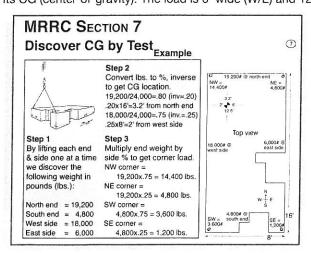
Test lift 1, South end = 6,400 lbs. Test lift 3, West side = 2,200 lbs.

Test lift 2, North end = 3,600 lbs. Test lift 4, East side = 7,800 lbs.

The estimated load weight is _____#

The approx. location of the CG from the South end is ______' and is _____' from the West side.

Hint: Review the MRRC-P7 as a working example, and determine the total load weight of the unit and its CG (center-of-gravity). The load is 6' wide (W/E) and 12' long (N/S).



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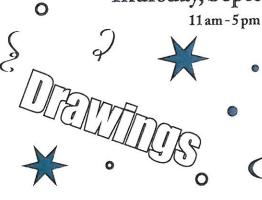
20TH Anniversary &

CUSTOMER APPRECIATION CELEBRATION!





Come Join the Fun! Thursday, September 28







CEU Credits Now Available!



We are pleased to announce that Industrial Training International, Inc. has become certified as an

Authorized Provider by the International Association for Continuing Education and Training (IACET). ITI is certified to offer IACET Continuing Education Units (CEU's) for all current training programs.

NCCCO Certification Available!

ITI is now offering NCCCO certification for Mobile and Overhead Crane Operators. See our 2006/2007 Training Schedule for a list of these programs.



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\$895 each - quantity discounts offered.
Contact Darlene at 360-225-1100 or email darlene@wrrc.com.



Workshop Answer Key (for page 1)

Total wt. = 10,000#

CG from south end = 3,600 + 6,400 = 10,000 3,600 / 10,000 = .36, .36 x 12 = 4.32'

CG from west side = 2,200 + 7,800 = 10,000 7,800 / 10,000 = .78, .78 x 6 = 4.68'

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