



Ready Reference Checklist - Mobile Crane

YOU WILL NEED A MOBILE CRANE IN EITHER OF THE FOLLOWING CATEGORIES:

- Lattice Boom Crane (truck or crawler)
- Small Telescopic Boom Crane (fixed cab)
- Large Telescopic Boom Crane (swing cab)

YOU WILL NEED THE FOLLOWING FOR EACH CRANE TO BE TESTED ON:

- A cylindrical Test Weight, diameter 2 ft.-4 ft. (76-152 in. in circumference), weight (including rigging) to be calculated at 20-30% of rated single line pull on top layer of rope including overhaul ball and any auxiliary components.
- Two (2) lengths of $\frac{3}{8}$ in. chain, painted fluorescent orange or red, that measure 3 ft. long from the bottom inside edge of the Test Weight and from the bottom of the crane hook.
- Overhaul ball, 30-48 in. in circumference, with a 2 in. wide horizontal line painted or taped around the center.
- Suitable rigging to attach the Test Weight to the hook, no more than 3 ft. long.
- Two (2) empty steel drums approximately 22 in. outside diameter and 34 in. high (e.g. 55 gallon diesel drum), open at one end.
- Forty (40) lbs. of non-permeable ballast for ballasting the barrels (20 lbs. each). **(FOR LATTICE BOOM CRANE ONLY)**
- PVC pipe, white, $1\frac{1}{2}$ in, SHD 40, sufficient to make forty-two (42), 36 in. long poles.
- Two 4 ft. x 4 ft. sheets of $\frac{3}{4}$ in. CDX-grade (or better) plywood, placed under Barrels secured or weighted as necessary to prevent movement.
- $\frac{3}{4}$ in. CDX grade (or better) plywood or high density polyethylene, sufficient to create forty-two (42) pole bases, $1\frac{1}{2}$ " ($\pm \frac{1}{2}$ ") x 12" x 12".
- Forty-two (42) tennis balls.
- Forty-two feet of #18 nylon string, to attach tennis balls to poles (optional).
- Eighty-four (84) $1\frac{1}{4}$ in. zinc plated (galvanized) screws, or equivalent, to secure nylon string to tennis balls and poles (optional).
- 500 ft. brightly colored, string line (for Zigzag Corridor and test site layout use).
- Spirit level to verify level (minimum 2 ft. length).
- Paint (fluorescent orange or red) for painting the tops of the poles and chain.
- Paint (white) for identifying the barrels, marking the overhaul ball, marking circles.
- Hand-held wind speed indicator (anemometer).
- Two (2) 100 ft. tape measures and one 30 ft. steel tape.
- Stop watches and clipboards for Examiner(s) and Proctor(s).

EQUIPMENT SOURCES.

Anemometers: West Marine, PO Box 50070, Watsonville, CA 95077. 1-800-262-8464. www.westmarine.com.

HDPE bases: House of Plastics, 2580 S. Orange Blossom Trail, Orlando, FL 32805. 1-888-707-5278. plastics@hopu.com.

CCO does not endorse or recommend particular vendors of any equipment.