



Ready Reference Checklist

PRACTICAL EXAMINATION—MOBILE CRANES

YOU WILL NEED A MOBILE CRANE IN AT LEAST ONE OF THE FOLLOWING CATEGORIES:

- Lattice Boom Crane (truck or crawler)
- Telescopic Boom Crane—Fixed Cab
- Telescopic Boom Crane—Swing Cab

THE FOLLOWING IS REQUIRED FOR EACH CRANE:

- A cylindrical Test Weight, diameter 2 ft. to 4 ft., weight (including rigging, overhaul ball, and any ancillary equipment hanging below the hook) to be calculated at 20 to 30 percent of maximum permissible single line pull for the crane as configured

NOTE: 55-gallon drums do not meet NCCCO Test Weight requirements and MAY NOT be used.

- Two lengths of $\frac{3}{8}$ -inch chain, painted orange or red, 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. circumference, with a 2 in. wide horizontal white line painted or taped around the center
- Rigging slings—no more than 3 ft. long—to attach the Test Weight to the hook
- Two empty steel drums approximately 22 in. outside diameter and 34 in. high (e.g., 55-gallon drum), open at one end
- For lattice boom crane only:** 40 lbs. of non-permeable ballast for ballasting the barrels (20 lbs. each)
- PVC pipe, white, $1\frac{1}{2}$ in. (SHD 40), sufficient to make 42 three-foot-long poles
- Two 4 ft. \times 4 ft. sheets of $\frac{3}{4}$ -inch CDX-grade (or better) plywood, placed under barrels and secured or weighted as necessary to prevent movement
- $\frac{3}{4}$ -inch, CDX-grade (or better) plywood or high density polyethylene (HDPE)*, sufficient to create 42 pole bases, $1\frac{1}{2}$ in. ($\pm\frac{1}{2}$ in.) \times 12 in. \times 12 in. (nominal)
- 42 tennis balls
- 42 ft. of #18 nylon string, to attach tennis balls to poles (optional)
- 84 $1\frac{1}{4}$ -inch 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) *NOTE: Chalk line may NOT be used*
- Spirit level to verify levelness (minimum 2 ft. length)
- Paint (orange or red) for painting the tops of the poles and chain *NOTE: Red electrical tape may be used for the poles*
- Paint (white) for identifying the barrels, marking the overhaul ball, and circles
- Handheld wind speed indicator (anemometer)*
- Two 100 ft. tape measures and one 30 ft. steel tape
- Stopwatches and clipboards for Examiner(s) and Proctor(s)

*EQUIPMENT SOURCES

NCCCO does not endorse or recommend specific vendors of any equipment, but the following sources may help you find required materials and equipment:

- **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