



Ready Reference Checklist

OVERHEAD CRANES

YOU WILL NEED AN OVERHEAD CRANE THAT MEETS THE FOLLOWING CRITERIA:

- Three ton minimum lifting capacity, with powered functions for *hoist*, *bridge*, and *trolley*

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

- A 3 ft. diameter cylindrical Test Weight, weighing between 1,500 and 2,000 lbs (including rigging)
- One 3 ft. length of $\frac{3}{8}$ -inch chain, when measured from the bottom of the Test Weight, painted orange or red, and attached to the bottom center of the Test Weight
- Rigging slings (2–4 ft.) to attach the Test Weight to the hook
- PVC pipe, white, 1½ in. (SHD. 40), sufficient to make 54 three-foot-long poles
- $\frac{3}{4}$ -inch, CDX-grade (or better) plywood or high density polyethylene (HDPE)*, sufficient to create 54 pole bases, 1½ in. ($\pm\frac{1}{2}$ in.) \times 12 in. \times 12 in.
- 54 tennis balls
- 54 ft. of #18 nylon string, to attach tennis balls to poles (optional)
- 108 1¼-inch zinc-plated (galvanized) screws, or equivalent, to secure nylon string to tennis balls and poles (optional)
- Two horizontal poles, made of 1½-inch PVC pipe, painted red or orange 12 in. on both ends and 12 in. in the middle
- 500 ft. brightly colored string line (for Right Angle Corridor and CAD layout use) **NOTE: Chalk line may NOT be used**
- Paint (orange or red) for painting the poles and chain **NOTE: Red electrical tape may be used for the poles**
- Paint (white) for marking circles
- 10 ft. \times 27 in. carpet runner, with three 9 in. painted square targets
- 13 ft.-15 ft. Chain-and-Ring Assembly per diagram on page
- Pin Assembly
- Handheld wind speed indicator (anemometer)* for outside testing only
- 100 ft. tape measure
- 30 ft. steel tape (e.g., carpenter's)
- Stopwatches and clipboards for Examiner(s) and Proctor(s)
- Two-way communications devices (for cab-operated exams)

*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