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*
- ❒ Minimum bridge span of 25 ft.
- ❒ Minimum hook height of 13 ft.

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

- ❒ A 3 ft. diameter cylindrical Test Weight, 2–5 ft. tall, weighing between 1,500 and 2,000 lb. (including rigging), verified by a weight ticket, crane's load indicating device (LMI, RCI, RCL), or other type of certification documenting the actual load weight available to the Examiner
- ❒ One 3 ft. length of 3/8-inch or 5/16-inch chain, painted orange or red, measured from the lowest point of the Test Weight (including feet), and attached to the center of the Test Weight
- ❒ Picking ears are mounted inside the Test Weight, or if mounted on the outside of the Test Weight the bottom of ears are at least 3 ft. 6 in. above the bottom of the weight
- ❒ Test Weight rigging is 2–4 ft. in length (load-bearing point to load-bearing point); if using multiple sling legs, recommend 60 degree sling angles (minimum 30 degrees required)
- ❒ PVC pipe, white, 1½ in. (SHD. 40), sufficient to make 54 three-foot-long poles
- ❒ 3/4-inch, CDX-grade (or better) plywood or high density polyethylene (HDPE)*, sufficient to create 54 pole bases, 1½ in. (±½ in.) × 12 in. × 12 in. (nominal)
- ❒ 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 be used on concrete floors***
- ❒ Paint (orange or red) for painting the poles and chain ***NOTE: Red tape may be used for the poles***
- ❒ Rubber mats or paint to mark circular designated areas
- ❒ 15 ft. × 27 in. carpet runner, with three 9 in. painted square targets per diagram
- ❒ 13 ft.–15 ft. Chain-and-Ring Assembly per diagram
- ❒ Pin Assembly per diagram
- ❒ 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)
- ❒ ***Cab-operated cranes with cab floor/platform more than 25 ft. above ground only:*** Four lengths of 3/8- or 5/16-inch chain, painted red or orange, each 3 ft. long when measured from the lowest point of the Test Weight (including feet); attached around the perimeter of the Test Weight at 0, 90, 180, and 270 degrees

*EQUIPMENT SOURCES

NCCCO does not endorse or recommend specific vendors of any equipment, but the following sources may be helpful in finding the required materials and equipment:

- ***HDPE bases:*** House of Plastics (part number HOP01-055), 2580 S. Orange Blossom Trail, Orlando, FL 32805, 407-843-3290, plastics@hopu.com

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