



Ready Reference Checklist

TOWER CRANES

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

- Hammerhead
- Luffing Jib
- Self-Erect

YOU WILL ALSO 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 36 in. length of 3/8- or 5/16-inch chain, painted orange or red (recommend using a minimum 6-inch diameter ring on one end so that it can easily be attached to the load hook for Task 1); length should be measured from bottom of load hook
- Four lengths of 3/8- or 5/16-inch chain, painted orange or red, each 3 ft. long when measured from the lowest point of the Test Weight (including feet); located around the inner rim of the Test Weight at 0, 90, 180, and 270 degrees
- 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. (SCH 40), sufficient to make 64 three-foot-long poles
- 3/4-inch, CDX-grade (or better) plywood or high density polyethylene (HDPE)*, sufficient to create 64 pole bases, 1½ in. (± ½ in.) × 12 in. × 12 in.
- 64 tennis balls
- 64 ft. of nylon string, to attach tennis balls to poles (optional)
- 128 1¼-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**
- Paint (orange or red) for painting the tops of the poles and chain **NOTE: Red tape may be used for the poles**
- Paint of contrasting color for marking 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 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