



Ready Reference Checklist

ARTICULATING BOOM CRANES

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

- A Test Weight 400–1000 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—cylindrical in shape, 3 ft. in diameter, and 2 ft.–5 ft. in height
- Length of 3/8- or 5/16-inch chain, painted orange or red, measuring 3 ft. long from the bottom center of the Test Weight
- Test Weight rigging has three sling legs (use of bridle recommended), 2–4 ft. in length (3 ft. recommended); recommend 60 degree sling angles (minimum 30 degrees required)
- 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
- PVC pipe, white, 1½ in. (SCH 40), sufficient to make 40 three-foot-long poles [34 poles needed for ABC #1 course]
- PVC pipe, white, 1 in. diameter, sufficient to make a 6 ft. ± 1 in. long hurdle
- ¾-inch, CDX-grade (or better) plywood or 1-inch high density polyethylene (HDPE)*, sufficient to create 40 pole bases, 12 in. × 12 in. (nominal); must weigh 5 lb. ± 10%
- 40 tennis balls [34 Balls needed for ABC #1 course]
- Minimum 6 ft. long horizontal obstruction pole made of 1 inch inner diameter PVC pipe (SCH 40)
- 40 ft. of nylon string, to attach tennis balls to poles (optional) [34 ft. needed for ABC #1 course]
- 80 1¼-inch, zinc-plated (galvanized) screws or equivalent to secure nylon string to tennis balls and poles (optional) [68 screws needed for ABC #1 course]
- 300 ft. string line, brightly colored (for Zigzag Corridor and Test Site Layout use) **NOTE: chalk line may NOT be used**
- Spirit level to verify levelness (minimum 1 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**
- Rubber mats or paint to mark the circular Designated Areas (If marking circles, designated areas, or other parts of a course on plywood or mats, the borders must be marked with materials with a flat, uniform surface and a lip variance not to exceed 3/4 in. Any materials used may not interfere with the free movement of the pole bases.)
- 2 in. wide (minimum) clearly visible, durable tape or other material to mark the rectangular Designated Areas and denotation lines
- Handheld wind speed indicator (anemometer)
- One 50 ft. tape measure
- Stopwatches and clipboards for Examiner(s) and Proctor(s); multifunction devices such as cell phones and wristwatches are not acceptable
- Two-way communication devices for top seat operator station
- If using remote controls, sufficient batteries to conduct all Practical 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:

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