



# Ready Reference Checklist

## ARTICULATING BOOM CRANES

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

- A Test Weight 400–1000 lbs. (including rigging), cylindrical in shape, 3 ft. in diameter, and 2 ft.–5 ft. in height
- Length of 3/8-inch chain, painted orange or red, measuring 3 ft. long from the bottom center of the Test Weight
- Three-leg sling 2 ft.–4 ft. in length, attached to the inside top of the Test Weight.
- PVC pipe, white, 1½ in. (SHD 40), sufficient to make 40 three-foot-long poles [34 poles needed for ABC #1 course]
- 3/4-inch, CDX-grade (or better) plywood or high density polyethylene (HDPE)\*, sufficient to create 40 pole bases, each 1½ in. (± ½ in.) × 12 in. × 12 in.
- 40 tennis balls [34 Balls needed for ABC #1 course]
- Minimum 6 ft. long horizontal obstruction pole made of 1 in. PVC
- 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
- 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
- Stop watches and clipboards for Examiner(s) and Proctor(s)
- 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:

- **Anemometers:** West Marine, PO Box 50070, Watsonville, CA 95077, 1-800-262-8464, [www.westmarine.com](http://www.westmarine.com)
- **HDPE bases:** House of Plastics, 2580 S. Orange Blossom Trail, Orlando, FL 32805, 1-888-707-5278, [plastics@hopu.com](mailto:plastics@hopu.com)