NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY U.S. DEPARTMENT OF COMMERCE NIST



(eyes/ears/hands)



Science and Technology



LEVEL

CONFINED SCENARIO (4")

Following the Confined Lanes, the Confined Scenario (4") setup consists of 5 apparatus, each utilizing 2 quart buckets on a 2x2 baluster spine, placed in sequential order 1-10 (100 points possible) in an operationally significant & confined space environment.

Tools Needed:

- Circular saw (Miter preferred) • Proper PPE
- Electric drill/driver set w/ bits
- Tape measure

Purchase List

#	Item	Purpose	Store
10	Quart Buckets - White	Targets	Industrial Distributor
10	Quart Buckets - Black	Targets	Industrial Distributor
10	2"x2"x42" Balusters	Spine, Feet	Hardware Store
1	2"x4"x96" Stud	Fins	Hardware Store
1	2" Waferhead Screws (box)	Wood-to-wood	Hardware Store
1	1.25" Waferhead Screws (box)	Buckets-to-wood	Hardware Store
20	Fender Washers (1/4" x 1 ¼")	Inside buckets	Hardware Store
1	3" Gaff Tape - White (Roll)	Scenario setup	Industrial Distributor

Quart Buckets





2" screws

- 1/4" x 1 ¼" washers

• 2"x2"x42" Pressure-treated. Beveled 1-or-2 End

Cut List

#	Item	Purpose	Notes
5	2"x2"x42"	Spine	Should come precut @ 42"
10	2"x4"x8" Fins	Fins	8" long-side; single 45°
10	2"x2"x8" Feet	Feet	8" long-side; opposing 45°s





• 1 1/4" screws





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Each apparatus consists of two black quart buckets, two white quart buckets, two 8" fins, and two 8" feet that are all attached to a single 42" spine. The buckets should be stickered appropriately & opposing each other (white/black).





Directions

- Use a 2x2x42" baluster for the Spine
- Place the 8", long-side of Fins along Spine, end-justified, 45° cut facing towards the center (secure with two 2" screws)



- Place 8", long-side of Feet along back of Spine, centered on the point of the Fins (secure with single 2" screw - tight but able to swivel)
- With a fender washer & 1-1/4" screw, fasten quart buckets opposite each other

- Print 4" Scenario sticker file and apply stickers appropriately
- Alignment Targets perpendicular to spine; Acuity Targets on 45°
- Alignment buckets get side #s
- Lay out apparatus 1-10, alternating horizontal & vertical orientations, ending with a perch landing at bucket #10
- Use gaff tape to affix apparatus to bldg/vehicle (can also use magnets on Feet & attach to metal)



SCORESHEET

STICKERS





POCKET GUIDE



4" Scenario Versions



Test Director

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Sponsor: Systems Engineering & Standards Division Science and Technology Directorate U.S. Department of Homeland Security



For additional information, forms and more, visit the website via this QR code.



Website

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