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International Society of Fire Service Instructors "THE PROP SHOP"



Prop Shop:
2004-04

Confined Space Simulator
Georgia Fire Academy – Forsyth, GA

Apr.
2004

CONFINED SPACE SIMULATOR (CSS)

This above ground simulator allows your department to conduct confined space rescue training in a totally controlled environment. This particular simulator is setup with horizontal and vertical entry points.

CONSTRUCTION

This simulator is constructed using four twenty-foot lengths of corrugated galvanized pipe that are twenty-four inches in diameter. The pipes are running between four pre-cast manholes that are set on top of level ground. To eliminate any drainage problems a drain can be placed inside each manhole and a concrete floor can be poured over the drainpipe.

Confined Space Simulator

Pre-cast manholes

Upright silo

20' Sections of corrugated galvanized pipe

Simulated tank

Supplies Needed

(4) 4" x 4" x 12' timbers

2" x 6" decking for 10' x 10' observation / working platform

(4) 20' sections of 24" diameter corrugated galvanized pipe

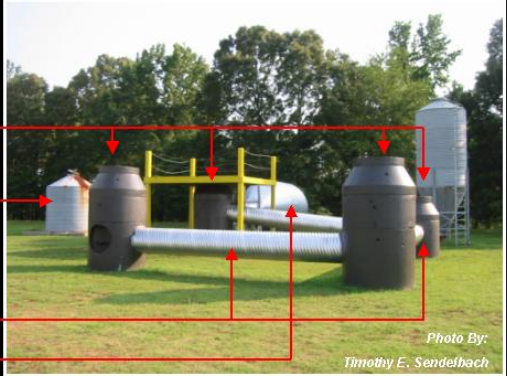


Photo By:
Timothy E. Sendelbach

(4) 20' sections of 24" diameter corrugated galvanized pipe.

(4) Pre-cast manholes

(1) 5' x 1/2" section of rope – used for safety railing around observation/operating deck

The pipes are set-in the manholes using concrete to fill around the pipes. Openings still allowing light to penetrate inside the simulator can be filled using spray-in expanding foam insulation. A simulated tank is fashioned using a silo laid on its side tied into one of the manholes. This allows for a variety of realistic scenarios.



A deck has been built over one of the manholes to allow for an elevated vertical entry point. Consideration should be given to construction a second deck with an offset hole and converging walls to provide a higher degree of difficulty for more advanced members.

Anyone interested in constructing such a prop should consider seeking donations from local industries, and/or utility companies. In return for the donation of materials, the department may consider providing annual refresher training in confined space operations.

With just a few donations and a little hard work your department can have an excellent confined space-training simulator at little to no cost.

This simulator is just one of the technical rescue props locate at the Georgia State Fire Academy.

FOR MORE INFORMATION

Contact Chief James Vickers at 912-651-6758 – Ext 243 or Jvickers@ci.savannah.ga.us