



## Trailer Chassis

The Smoke/Confidence training trailer shall be max of 32' enclosed goose neck trailer. The trailer shall include the following;

- It shall have a minimum 2 - 7000 GVWR axels with electronic brakes on all axels.
  - axels shall be spaced accordingly for weight distribution
- The trailer will be of steel or aluminum frame construction with aluminum exterior walls and a one piece roof 2 full size entrance doors, and 2 (two) side mounted hinged rear doors and 2 (two) maze entrance doors.
- The trailer shall be DOT compliant as to markings, and lighting.
- Completed/equipped total trailer weight shall be less than 13,000 pounds.
- Trailer jacks shall be electric or hydraulic.
- Covered generator space on top of hitch frame

## Doors & Compartments

The training trailer will have the following types and styles of doors;

- Two (2) 36" X 76" entrance/egress doors on the right side of the trailer with the door allowing access to the interior of the control area and training environment of the trailer. The door will be equipped with deadbolt locks and grab handle for opening. The doors shall be hinged on the forward side of the trailer.
- The door will include a fold out entrance stair

There shall be and 2 (two) side mounted hinged doors on the rear of the trailer to facilitate the changing of the prop design an access to the facility for maintenance. The door will incorporate a locking assembly and the ability to install pad locks for securing trailer door.

## Hatches

- The trailer will include two entrance/egress hatches to provide access into the training environment.
- Each opening shall include a light prohibiting cover to deflect outside sunlight away from training environment while hatch door is open.





- Each hatch shall include a sloped entrance ramp with slip resistance surface to provide easy access to the training unit. The ramps shall include a securable/lockable storage location on the lower side of the trailer during transportation

## Control Room

There shall be an operations control room located in the front of the trailer to accommodate the safe operation of the training system. The control room will have the following features;

- Walls will be Marine grade plywood
- Completely sealed from training space
- There shall be a complete control center for the operations of all lighting, ventilation fan(s), and smoke machine.
- There shall be a secure mounting for the trailer spare tire
- There shall be E-track installed on front wall of control room
- There shall be a storage box for smoke fluid remotes general tools and spare parts.

## Training Area

The smoke maze/confidence training area shall include 3 levels of training with the first two levels having interchangeable design capabilities. Levels 1 & 2 will include various reconfigurable gates that create a changeable maze system with varying dimensions and diminishing clearances including and sloped floors to allow trainees to move among the different levels. The 3<sup>rd</sup> level shall include a wire entanglement station, rafter crawl area. Gates are to be of heavy duty design and easily exchangeable to alter the maze configuration with minimal effort and time expended to do so. The interior walls and ceiling shall be covered with plywood with a minimum thickness of ½” and be secured with flush mount or recessed removable fasteners for easy replacement due to damage. The maze system shall include the following;

- Wire entanglement area
- Horizontal diminishing clearance area
- Vertical diminishing clearance area
- Attack rafter crawl navigation area
- Pass through with maximum dimensions of 15” wide X 15” high area
- Two (2) sloped floor access with slip resistant surfaces.
- High velocity exhaust fan(s) to remove smoke from entire training area between training sessions or in the event of an emergency.





## Generator

- A generator sized to accommodate all the systems components
- Generator should be wired to components in control room.
- Generator shall be mounted on the top of hitch frame assembly allowing operations in its mounted position. Fuel tank shall be fillable from ground level.
- Generator shall be covered; cover shall allow for operations without removing cover
- Cover should be removable for ease of service of generator

## Electrical & Lighting

The following lighting components shall be included with the completed trailer;

- Dual red and white 120 Volt LED lighting in training area
- White 4ft -120 Volt LED lighting to be installed in the control room
- Unit is to be equipped with four (4) flush mount LED flood lights on exterior with placement to be One above door or hatch
- • All 12 volt and 120/240 volt wiring will be properly shielded at any location that it passes through a hole or other structural support with additional rubber grommets or like material to prevent damage to internal wiring and possibility of shorting out from rubbing against metal surfaces.
- Smoke Machine, Red/White lights, Exhaust fan, and flood lights shall have wireless controls. In one remote.

## Smoke System

- The training trailer shall be equipped with a water based smoke generator. The smoke generator shall be large enough to support constant smoke generation. Filling the training space in short amount of time.
- The unit shall be installed in an accessible location in the front control room.





## Exhaust/Ventilation

- The exhaust and ventilation systems shall include and exhaust fan(s) and controls. Ventilation equipment
- shall be designed to remove smoke between exercises or in the event of an emergency. Upon manual activation from the wireless controller or the main operator panel, the exhaust system shall initiate the removal of smoke and the purge cycle shall remain activated until the instructor determines that a clear and safe level has been obtained.
- Activation of exhaust fan shall also turn on all interior lights with a single button operation.

## Additional Items

- 12 complete sets of keys will be provided upon delivery of the trailer.
- 3 days of training on the unit with 2 classes each day. Class will have a max of 15 per secession.
- Complete operation manuals will be provided in PDF format and supplied prior to the operational training course.
- 1 Little Giant ® type ladder or equivalent manufacturer to be stored in the control room and it shall be secured for road travel by a PAC Jumbo Loc®, or equivalent, mounting bracket or equivalent.
- Bidder shall print and install the agency provided graphics design on the left and right side of the trailer.
- 2 sets of standard aluminum or cast wheel chocks provided and stored within the trailer.
- 1 key lock box affixed to the trailer chassis with a combination access. Master Lock 5401D WALL MOUNT LOCK BOXES

## Warranties

All warranties for trailer or supplied equipment shall be in place beginning with the date the trailer is delivered to the Academy's designated location for the manufactures specified time frame.

