

URBAN ASSAULT COURSE (UAC)

Purpose: The UAC is designed to provide squad- and platoon-size units with a facility to train and evaluate urban operations tasks. With the exception of Station 3--Grenadier Gunnery--the UAC is not intended for live-fire training. Station 3 is designed to support 40-mm TP and 5.56-mm service ammunition. Various types of organizations with a variety of missions can train at the UAC. Operations in an urban environment may include combat and stability as well as support tasks. The UAC is a dismounted training facility.

Targetry: Targets throughout the UAC are either reactive targets (for engagements less than 50m), or 2D non-precision exterior Stationary Infantry Targets (SIT) (for engagements greater than 50m). The government will furnish these targets. See the UAC Narrative Description for pictures of these targets.

- a. Reactive targets support short distance engagements. Sensors contained within the reactive target respond only to lethal shot placement.
- b. Non-precision targets support engagements that are at ranges greater than 50m. These targets are 2D pop-up Stationary Infantry Targets (SIT).

Facility Descriptions: The UAC has five training stations that facilitate the crawl/walk/run training concept (See the Layout Details in the Appendix of this document for the UAC station details). The UAC stations include:

Station 1 - Individual and Team Trainer. This station is a three-room trainer where team leaders and squad leaders train the basics of building and room clearing. This station is used to train individual and collective tasks, tactics, techniques, and procedures, such as entering a building, clearing a room, and engaging targets. (See drawing UAC-2 in the Appendix of this document). This structure is constructed with wood and is comprised of three rooms, which have open doorways, windows, and a man-size hole.

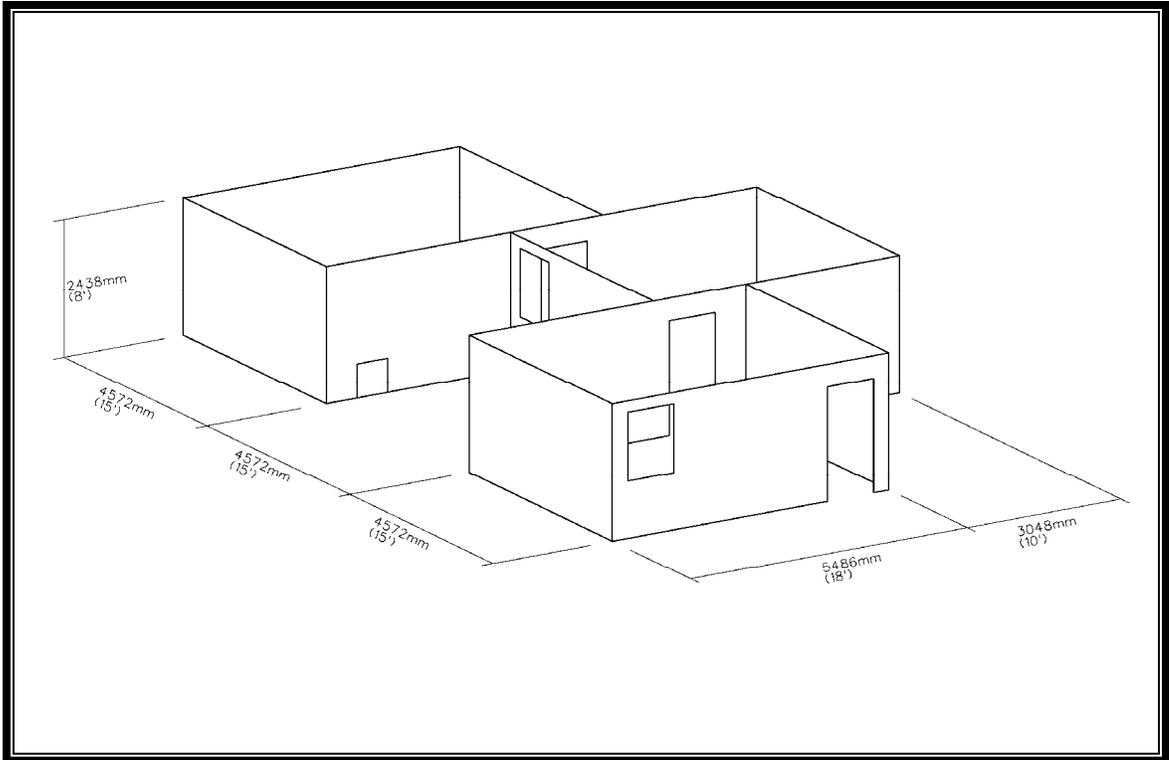


Figure 1 - Individual and Team Trainer.

Typical Configuration.

Size:	N/A
Occupancy:	N/A
Foundation:	Pressure treated wood posts in concrete
Shell:	Plywood siding
Roof:	None
Doors:	Two interior and one exterior
Windows:	No glazing
Interior Finishes:	None
HVAC:	None
Standard Lighting:	None
Lightning Protection:	None
Power:	120/240 Volts (1) NEMA L14-20R, (1) NEMA L5-20R per target power outlet. 1-120 Volt maintenance receptacle per room.
Telephone:	None
Cameras:	None
Target Power Outlets:	6 (two per room)

Station 2 - Squad and Platoon Trainer. This station is a four-structure trainer with multiple rooms. Squads build upon tasks learned at Station 1 and begin to learn the concepts of clearing

multiple buildings. The station is designed in such a way that it can be used to replicate separate buildings with a narrow street or as individual rooms inside a building with a long, connecting hallway. This station is used to train individual and collective tasks, tactics, techniques, and procedures. Specific tasks include moving tactically down a street (hallway), entering a building, clearing a room, and engaging targets. Station 2 increases the complexity of command, control, and maneuver. This station has four separate structures that face inward to create a street and introduces a two-story building with both exterior and interior stairways. (See the Layout Details in the Appendix of this document and Figure 2 below).

NOTE. Units can place additional walls in all the structures by using target cloth or some other material to add to the number of rooms or complexity of the training.

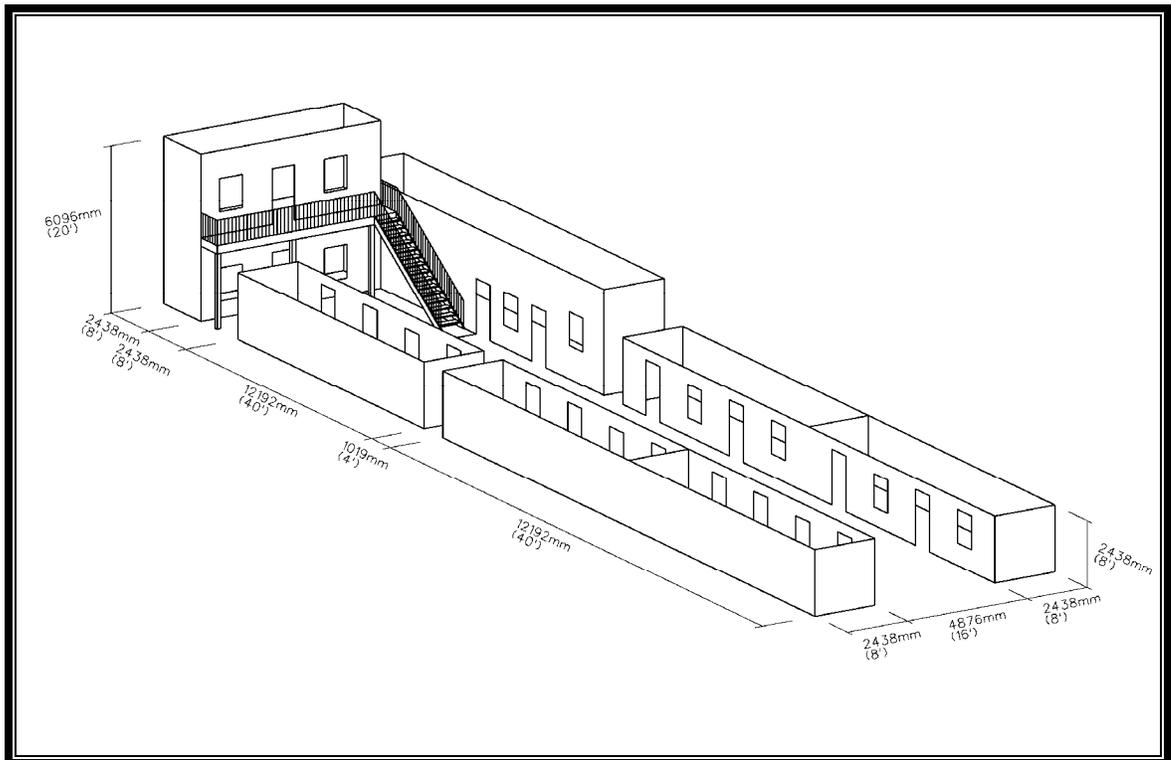


Figure 2 - Squad and Platoon Trainer.

Typical Configuration.

Size: 35.67 square m (384.0 square ft)

Occupancy:	N/A
Foundation:	Pressure treated wood posts in concrete
Shell:	Plywood siding
Roof:	None, except two-story section
Doors:	18 door openings with no doors
Windows:	Window openings with no glazing
Interior Finishes:	None
HVAC:	None
Standard Lighting:	None
Lightning Protection:	None
Power:	120/240 Volts -(1) NEMA L14-20R, (1) NEMA L5-20R per target power outlet. 2-120 Volt maintenance receptacles per building/floor.
Telephone:	None
Cameras:	None
Target Power Outlets:	12 double, 19 single

Station 3 - Grenadier Gunnery Trainer. This station is a live-fire station where M203 gunners master target engagements in an urban area, move tactically, and respond to fire commands. This station is used to train M203 (Dual-Purpose Weapon) gunners on the engagement of targets in an urban area. M16 targets (SITs) are located 50 to 150m downrange. Tactical movement and fire commands are also trained at this station.

Description. This station has two main parts. The first part consists of a wooden facade wall that depicts a two-story building. This facade is 16 feet high by 28 feet wide. It includes two upper floor windows and one lower floor window and a doorway. The second part consists of the target engagement lane and seven firing positions located between the wooden façade and the first firing position. These positions are provided with covers, such as sandbags, log walls, and rubble. Firing points can be adjusted to support a variety of training scenarios. (See the Layout Details in the Appendix of this document and Figure 3 below).

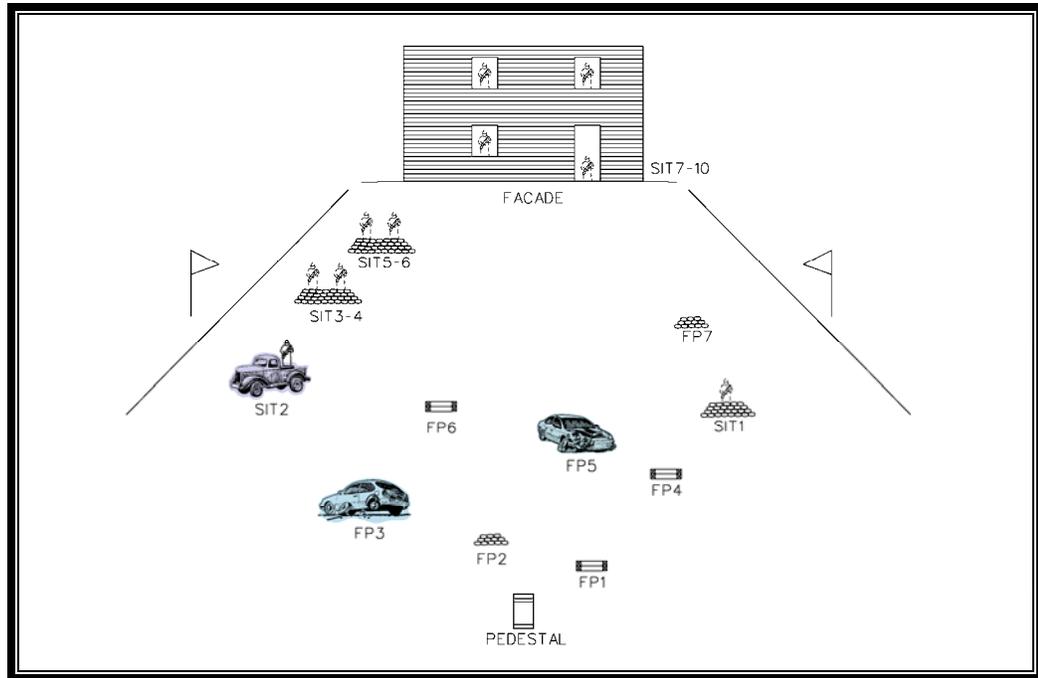


Figure 3 - Grenadier Gunnery Trainer.

Typical Configuration.

Size:	Not Applicable (N/A)
Occupancy:	N/A
Foundation:	Pressure treated wood posts in concrete
Shell:	Plywood siding and Rubber Membrane
Roof:	None
Doors:	None
Windows:	No glazing
Interior Finishes:	None
HVAC:	None
Standard Lighting:	None
Lightning Protection:	None
Power:	120/240 Volts (1) NEMA L14-20R, (1) NEMA L5-20R per target power outlet. 1-120 Volt maintenance receptacles per target emplacement/façade and 120 Volt duplex receptacles for the data network enclosure.
Telephone:	None
Data Communication:	(2) CAT6 RJ-45 jacks per target data outlet
Cameras:	None
Target Emplacements:	10 Total

Station 4 - Offense/Defense House. This station is the location in which a platoon can train to attack and/or defend a building. Station 4 can also be divided into a number of smaller training stations to reinforce training or to train tasks not yet trained at the other stations. This station is used to train collective tasks and individual tasks, tactics, techniques, and procedures. It allows the platoon to exercise the task steps and performance measures associated with the offensive and defensive tasks. Station 4 increases the complexity of command, control, and maneuver. (See Figure 4 below).



Figure 4 - Offense/Defense House.

Description. This station is a two-story building with a basement. Each floor has several rooms, windows, doorways, loopholes, and mouseholes. The gabled roof has dormer windows and a hatch to the attic below. Half of the rooftop is flat. The building has exterior and interior stairways. Although the building is not meant to be water tight, some type of drainage at each floor and the basement is required.

Typical Configuration.

Size: 499.4 square m (5,376 square ft)
Occupancy: N/A
Foundation: Concrete Spread Footings

Shell:	Concrete Masonry Units (CMU)
Roof:	Rolled Roofing Material
Doors:	Yes
Windows:	Shutters, reinforced sills, no glazing
Interior Finishes:	Painted
HVAC:	None
Standard Lighting:	Yes, with protective coverings
Lightning Protection:	None
Power:	120/240 Volts (1) NEMA L14-20R, (1) NEMA L5-20R per target power outlet. 1-120 Volt maintenance receptacles per floor of the building.
Telephone:	None
Cameras:	None
Target Power Outlets:	42

Safety Requirements. Only smoke, practice, and M84 stun grenades may be used at this station. Station 4 is not a live-fire station. Training is conducted using Tactical Engagement System (TES) with blank 5.56-mm and/or Special Effects Small-Arms Marking System (SESAMS). Units should consult with their supporting combat engineers for the proper demolition effects simulators (DES) for use against the blow panels located throughout the station.

Station 5 - Underground Trainer. This station provides training for subterranean operations. Station 5 is designed to train up to a squad on clearing and moving tactically in a subterranean environment.

Description. This station is a sewer system built in an irregular pattern with four manhole covers. Two access tunnels lead from the outside tunnel to the underground loop. The station is completely covered by dirt. Only the manholes and ground level entrances are exposed. This station is normally built above grade and covered with dirt, rather than buried, to help keep the trainer dry. The station is also designed to keep unwanted animals out. As an added option, this station can be connected with Station 4. (See the Layout Details in the Appendix of this document and Figure 5 below).

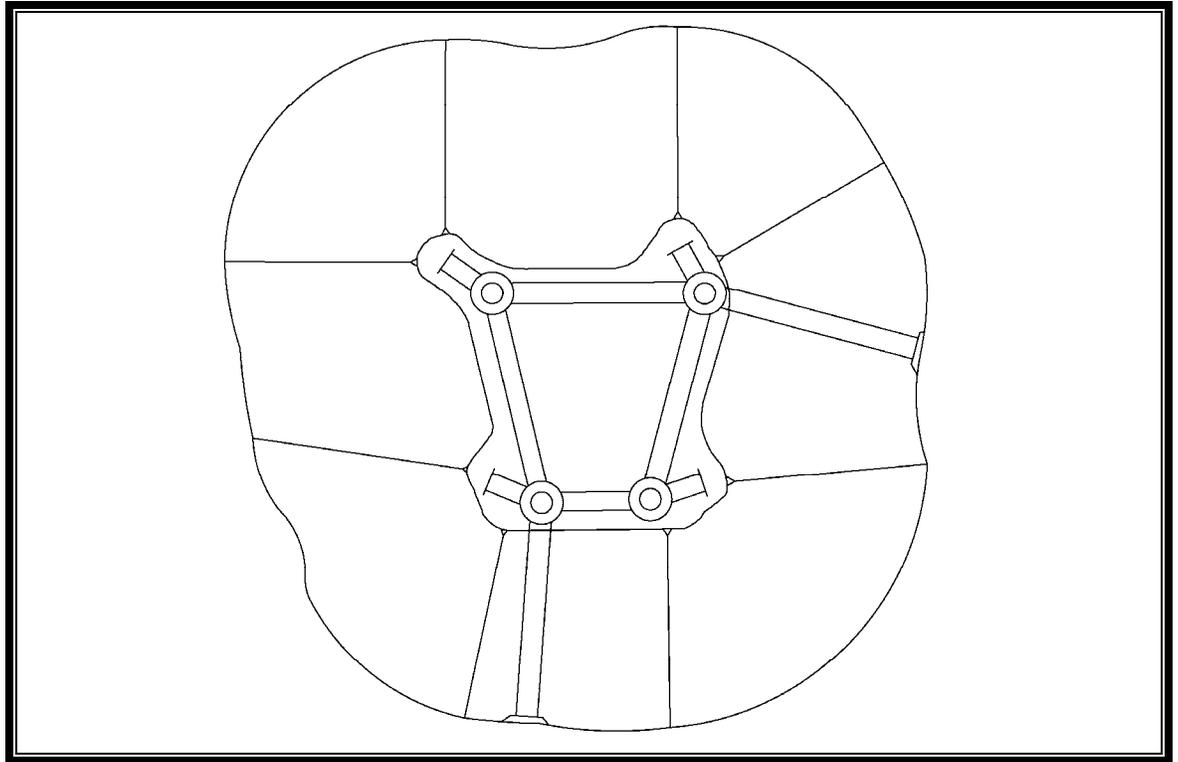


Figure 5 - Underground Trainer.

Typical Configuration.

Size:	48.77 m (160 ft) of 1.22 m (4 ft) diameter concrete pipe, and 30.48 m (100 ft) of 1.067 m (3.5 ft) diameter concrete pipe
Occupancy:	N/A
Foundation:	N/A
Shell:	N/A
Roof:	N/A
Opening:	2 concrete headwalls and 4 manholes
Windows:	N/A
Interior Finishes:	None
HVAC:	None
Standard Lighting:	None
Lightning Protection:	None
Power:	None
Telephone:	None
Data Communication:	None
Cameras:	None
Target Power Outlets/Cable Jacks:	None

Targetry. Station 5 is a force-on-force training station and has no targetry.