

INVITATION TO BID

The Town of Newington will accept bids for a classroom trainer system that is a firearms and tactical weapons simulator. All bids must be submitted in accordance with Town specifications and on forms supplied by the Town. Bid forms and specifications are available in the Town Manager's Office, 131 Cedar Street, Newington, CT 06111 and on line at www.newingtonct.gov, in the Doing Business, Current Bids section. Sealed bids will be received by the Town Manager's Office until 2:30 p.m. on September 15, 2010 when they will read publicly. The Town of Newington reserves the right to reject any or all bids.

John L. Salomone
Town Manager

Bid No. 1, 2010-11

TOWN OF NEWINGTON

FIREARMS & TACTICAL WEAPONS SIMULATOR

GENERAL INFORMATION

1. INTENT

It is the intent of the Town of Newington to purchase a classroom trainer system that is a firearms and tactical weapons simulator for use by both the Town of Newington Police Department and the Town of Wethersfield Police Department. The unit will be shared by these two departments.

2. BID PROCEDURES

All bids shall be submitted on forms provided by the Town of Newington and addressed to the Town Manager's Office, 131 Cedar Street, Newington, CT 06111. Bids will be received until 2:30 p.m. on September 15, 2010 in the Town Manager's Office, when they will be opened and read publicly. Sealed bid envelopes should be clearly labeled "Bid No. 1, 2010-11, Firearms & Tactical Weapons Simulator".

The Town reserves the right to waive informalities or to reject any or all bids when such action is deemed to be in the best interests of the Town. The Town reserves the right to delete such items as it deems necessary from these proposals. All exceptions of the bidder to the terms and specifications of this bid shall be made in writing and submitted in full with the Bid Form. For all other terms and specifications, submission of a bid constitutes acceptance by the bidder. The Town reserves the sole right to reject bids which contain exceptions that it deems to be unacceptable.

3. SPECIFICATIONS

Bids shall be submitted in conformance with the attached detailed specifications, which are to be considered as minimum acceptable standards. All items shall be new standard production models.

4. NONDISCRIMINATION

The Contractor shall agree and warrant that it will not discriminate or permit discrimination against any person or group of persons on the grounds of sex, race, color, religion, age, marital status, ancestry, national origin, past history of mental disorder, mental retardation or physical disability or other basis in any manner prohibited by the laws of the United States, the State of Connecticut, or the Town of Newington.

5. SUBMITTALS

A. In addition to the Bid Form, the following shall be included with the Bid :

1. One (1) set of manufacturer's specifications. These specifications will be evaluated to determine if the components are equivalent to the items specified. Bidder shall note, in writing, any deviation from the specifications of this bid. Merely providing literature is not sufficient and may be just cause for rejection of a bid.
2. The warranty period shall be submitted on the Bid Form.
3. At least three references for similar systems already in use with other municipal police departments. Provide the client name & address, the contact person(s), their title, telephone number and email address.

B. After the bid has been awarded, the following shall be provided:

1. The successful bidder must supply all manufacturers' equipment and technical advice necessary for the proper operation of the equipment.
2. The successful bidder must further supply two (2) complete operational manuals.

6. EXTENSION OF AWARD

It is also the intention of the Town of Newington to extend the opportunity to other municipalities who wish to do so to use this bid for the purchase of the same system. All agreements, awards, contracts, or purchases by other municipalities arising from this bid shall be directly between the bidder and the municipality, with the Town of Newington assuming no role, responsibility, or liability for the actions or omissions of either party.

7. QUESTIONS

All questions regarding these specifications shall be presented to Lieutenant John Johnson, Newington Police Department, 131 Cedar Street, Newington, CT 06111, telephone number 860-594-6211. All questions shall be presented at least three business days prior to the bid opening to allow for the preparation of written addenda. All addenda shall be posted on the Town's web site, www.newingtonct.gov, in the Doing Business, Current Bids section.

8. TRAINING

All costs for training required to properly and safely set up and operate the system bid shall be included in the amount bid. Any such training shall be provided to both the Newington Police Department and the Wethersfield Police Department.

TOWN OF NEWINGTON
FIREARMS AND TACTICAL WEAPONS SIMULATOR
SPECIFICATIONS

I. Tactical Weapons Simulator

A. General

- i. The Classroom Trainer shall be a “plug and play” classroom training package.
- ii. The system shall be completely contained in one or more rugged, waterproof carrying container(s) (such as a Pelican Case or similar container) with wheels, equipped for easy movement of the unit by one person.
- iii. The design of the console shall supply fixed mounted positions for the system hardware such as the computer, camera, and video projector.
- iv. The entire unit shall receive power from one or more 120 volt external power lead(s) extending from a mounted surge suppressor(s) that serves as a fixed central power source for all electrical components.
- v. The design of the console shall provide a functional table top surface for the use and storage of the wireless keyboard and mouse, which shall be included.
- vi. The system shall conform to a size and weight to where it can be easily carried by a single individual and transported in an average four door government sedan with no special accommodations.
- vii. The unit shall be convenient for use in a classroom training environment and simple to set up. The user shall be able to go from a stored device to training ready in under 20 minutes.
- viii. In addition to the firearms units the system must be capable of integrating OC, X-26 Taser, simulated recoil weapons, and also drop-in recoil conversion kits.
- ix. The package shall be a complete turn-key system that includes skill builders, course of fire training, scenario based judgment training, and gun actions training, including a live-fire system, as included in these specifications.

B. Course of Fire

- i. Built in course editor and lighting adjustment option.
- ii. Create virtually any qualification course from three to fifty meters while accommodating up to four targets in a single lane.

- iii. Lighting conditions can be set by stage from fully lit to complete darkness.
- iv. Shall enable a review of every shot taken from each distance - examine shot grouping, placement, and print the targets.
- v. Shooting results saved for later review and progress tracking.

C. Branching Video

- i. Shall allow for provision of advanced training in the most realistic settings. The systems player shall allow for real-time video scenarios to be used and provide for several possible outcomes branching off from the original scene based on the trainee's actions.
- ii. The trainer shall have the ability to control the branching options and re-play the scenes to display and discuss the trainee's performance.

D. Skill Drills

- i. Training drills shall be included that focus on the improvement of a student's speed, accuracy, and decision making skills.
- ii. Each drill shall allow an instructor to tailor every training session to individual skill levels from beginner to expert using adjustable settings such as number of targets, target face time, and target speed.
- iii. Drills shall be developed with direct input from active Military and Law Enforcement instructors.

E. Virtual Shoot House (or similar method of training)

- i. Training drills shall focus on the improvement of a student's speed, accuracy, and decision making skills.
- ii. Each drill shall allow an instructor to tailor every training session to individual skill levels from beginner to expert using adjustable settings such as number of targets, target face time, and target speed.

F. Moving Targets

- i. The courseware shall prepare shooters for the most difficult shot they will face in a combat situation, the moving target.
- ii. The system shall simulate moving targets at varying speeds and distances.
- iii. The operator shall be able to control the program remotely via a wired or wireless laptop or desktop personal computer.
- iv. The system shall include built-in after-action review for a detailed review of each shot fired during the training session, and shall be available using laser or live-fire.
- v. The system shall include a training system to teach officers how to lead targets properly to improve shooting accuracy at various speeds, distances, and directions.

II. Warranty

- A. Date of warranty shall commence on the date the unit becomes operational.

III. Model

- A. The model shall be the most up to date version of the company's Weapon Simulator and must be the standard equipment package (or as modified by these specifications).

IV. Standard Items

- A. All items included in consumer available literature shown or indicated as "standard equipment" shall be provided. No equipment deductions are to be taken without the consent of the Town of Newington.

V. Delivery

- A. The equipment shall be delivered in its' entirety, prepared, and in the possession of the Newington Police Department within 30 days after written notice of the award for this bid, either by letter or a purchase order.
- B. All deliveries shall comply in every respect with all applicable laws of the Federal Government and the State of Connecticut.
- C. Delivery of systems and equipment specified in this bid shall be made to the Newington Police Department, 131 Cedar Street, Newington, CT 06111. Risk of loss or damage in transit shall be borne by the successful bidder, who shall be responsible for filing any necessary claims against the carrier.
- D. The system and related equipment shall be delivered with all items completely installed and in operable condition.
- E. All charges for freight, delivery, set up, installation, shipping and handling shall be included in the bid amount.

VI. Standard Equipment (*must meet or exceed listed specs*)

A. Computer (desktop or laptop – desktop preferred)

- i. The computer shall be a current named brand unit capable of running the system as purchased and running the system if options are added at a later time.
- ii. OCZ Gaming (or similar technology)
- iii. Intel P8600 CPU
- iv. DDR3 2G Memory (4 G preferred)
- v. 250G hard drive
- vi. Windows 7 Pro 32 Bit
- vii. Express FireWire Card

B. Software

- i. The system shall have the most current software package available and all upgrades within the first year of usage shall be made available at no charge.

C. Projector

- i. Minimum Dimensions: 12.5" X 3.9" X 11.3"
- ii. Weight: approximately 8 pounds.
- iii. 2,600 ANSI Lumens or greater
- iv. Native XGA Resolution
- v. 2000:1 Contrast Ratio (Using Active Iris) or greater
- vi. 2 RGB Inputs / 1 RGB Output, minimum
- vii. Component / Composite /S-Video Inputs
- viii. 16 Watt Audio Output (2 x 8W speakers)
- ix. Rated expected lamp life of approximately 3,000 hours
- x. Shall include a Security Bar & Transition Detector
- xi. Sound level shall be approximately 30 dB
- xii. Easily Accessible Hybrid Filter (rated for approximately 5,000 Hours)
- xiii. Instant On/Off
- xiv. Audio Pass Through
- xv. Template Function
- xvi. Power Saving Mode
- xvii. Power supply AC100-120V/AC220-240V 50/60 Hz Power
- xviii. Power consumption shall be rated at approximately 330watts

D. Screen

- i. Gain 1.00
- ii. Overall Size 7'6" X 10'
- iii. Image Area 86" X 116"
- iv. Flexible Matt White screen.

- E. Pelican Case (or similar case)
 - i. Retractable extension handle
 - ii. 4 strong polyurethane wheels with stainless steel bearings
 - iii. Easy open Double Throw latches
 - iv. Open cell core with solid wall design - strong, light weight
 - v. O-ring seal
 - vi. Automatic Pressure Equalization Valve
 - vii. Fold down handles
 - viii. Stainless steel hardware and padlock protectors
 - ix. Personalized nameplate service available
 - x. Lifetime Guarantee of Excellence
 - xi. Watertight, crushproof, and dust proof

- F. Roll Device (to move the system within the Pelican type case)

- G. Speakers
 - i. Dimensions 7 ½”high x 3-1/8”wide x 5-7/8”Deep
 - ii. Right Speaker : 2.3 pounds
 - iii. Left Speaker : 1.8 pounds

VII. System Comparability Checklist

The Town’s review of the current technology involved reviewing several systems. The following systems are examples of systems that have many of the functions the Town is looking for: Laser Shot LE Pro and LE-Classroom Trainer, and the IES – Pro systems. The following checklist includes the system’s specifications, which all bidders shall complete and return with the Bid Form. All deviations from these specifications shall be addressed by the bidder in writing and also submitted with the Bid Form:

Specification	Yes¹	No²
An interactive Firearms Training Simulation system with all accessories needed to conduct comprehensive classroom training for two officers simultaneously (handgun – Glock 17/22) and one officer with rifle (M4/AR15)		
Provides firearms engagement drills that improve accuracy, reaction time, and improve target identification fundamentals		
Provides a method of creating 3D simulated qualification course, allowing instructor control to change lighting, sizing, number of rounds, and targets.		
Scenario Play Software. Software engine that uses digital video imagery to play filmed multi-branching scenarios. The branch options must have the ability to be controlled by the instructor.		

¹ Yes = supplied with system
² No – not supplied with system

Scenario editing software which allows the users to insert and create multi-branching scenarios, edit shot zones, define timeline for threat and enter multiple outcome branching options.		
Includes at least 100 scenarios total to include at least the following categories – school, traffic, disturbances, sniper, narcotic operations, assaults, and domestics. Combat Skills Engagement Software Includes at least 15 firearms engagement drills that improve accuracy, reaction time, and improve target identification fundamentals.		
Must be able to be used with firearms purchased to provide live-fire training with virtual target.		
User ability to move the system from one location to another with minimal set up time. The unit must be portable as it will be shared by two police departments.		
Tether-less weapon training capabilities		
2 Glock 17/22 weapon training capabilities with two CO2 refill magazines.		
Based Hand Trainer. A certified non-weapon that emits a visible laser compatible with the Firearms Training Simulator. Laser inserts will not be accepted as a substitution.		
2 Glock 17/22 weapon training capabilities to include recoil with four refill magazines (two per weapon – total of four). Tether-less Simulated Recoil Weapon. Two modified Glock 17/22 weapon that creates recoil action through a CO2 reservoir which is stored inside the magazine. No air lines shall be connected to an external source.		
1 M4/AR15 weapon training capabilities to include recoil with three CO2 refill magazines. A modified M4/AR15 weapon that creates recoil action through a CO2 reservoir which is stored inside the magazine. No air lines shall be connected to an external source.		
Visible bore laser set. This set contains a 9mm dry fire laser insert compatible with Glock weapons and also includes .38, .357, 9mm, 10mm, .40,& .45 bore sleeves.		
Taser X-26 weapon training capabilities, with software support to demonstrate effectiveness of use within same scenarios used for firearms judgment		
OC training capabilities, with software support to demonstrate effective training within same scenarios used for firearms judgment		
Training. At a minimum - one day onsite system setup & training. A training course provided onsite that goes over inventory of items, physical set up, maintenance of screen, projector, and Laptop, System and weapon maintenance, installation, & software overview and use.		
A minimum of 12 month standard system warranty		
Customer service and support available at a minimum of five days a week eight hours a day		

VIII. Narrative Description

Each bidder shall describe the capabilities of their system to meet or fulfill the desired objectives in the left hand column (*must be submitted with Bid Form and can be on a separate document*)

Marksmanship Training	
Use of Force Judgment, to include Selection of multiple Appropriate weapons	
Team Work Multiple Officers	
Expandability of System	
Fresh Scenarios	
Portability	
Record Keeping	

TOWN OF NEWINGTON

FIREARMS AND TACTICAL WEAPONS SIMULATOR

BID FORM

BASE BID

In accordance with the specifications, the undersigned submits the following bid for a class room trainer system for a Firearms and Tactical Weapons Simulator, for the amount of:

\$ _____ each

The standard warranty period is: _____

ALTERNATE ONE

An extended warranty, for the amount of \$ _____, is available for an additional period of:

The specification checklist, narrative description, and manufacturer's specifications are enclosed. The undersigned is submitting this bid without collusion with any other individual or corporation.

SUBMITTED FOR:

SUBMITTED BY:

Firm _____

Signature _____.

Address _____

Name _____.

Title _____.

Telephone _____.