STRESS VEST

FORCE ON FORCE REINVENTED™



stressvest.com

PRODUCT OVERVIEW

Coming 2023

STRESSVEST DER



Patented





The World's Most Advanced Pain Penalty Solution



Stress Exposure Training



Pain Penalty or Vibration



Advanced
Training Modes



Pin Mounting System



Bluetooth®

STRESS VEST TECHNOLOGY



StressVest® Viper

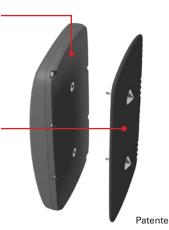
Dimensions: 11 cm (4.33 in) \times 6.7 cm (2.6 in) \times 1.9 cm (0.75 in) Smaller than the average smartphone!

SHOCK GENERATOR

- Safe, adjustable pain penalty.
- Advanced Training Modes including Injured Soldier Mode and Get to Ground Mode.
- Qi^{TM} wireless charging.

ELECTRODES

- Delivers safe localized pain penalty or vibration.
- Push through pins allow the Viper to be attached to clothing, removing the need for additional mounting straps and improved hygiene.



INTEGRATION

 Can be integrated with any system that is Bluetooth® enabled. Including, but not limited to: laser engagement systems, advanced StressVest® systems and customized smartphone or tablet software.

STRESSVEST



UNIFORMED OFFICERS

StressVest®



STRESSVEST® SYSTEM

StressVest® is the world's first non-projectile, force on force, firearm tactical training system capable of creating stress through a pain penalty without fear of projectile injury for training Law Enforcement Officers and Military Soldiers. The system utilizes training firearms that fire a laser pulse which activates the StressVest® when it strikes center mass. Depending on the setting, the vest will either deliver a vibration or a safe, localized shock to the abdomen.





BASIC SINGLE PACKAGE INCLUDES:



Lockable Storage Case



Vest Receiver



StressX® PRO Belt



USB Cable & Chargers



Transmitter

StressX® PRO Belt



StressVest® features an externally worn, wireless StressX® PRO Belt that delivers a safe, localized, fully adjustable shock through clothing or a vibration for role players. The StressX® PRO is the ONLY system in the world with Advanced Training Modes including Role Player, Stress Exposure, Move to Cover and Injured Officer.





Features

Infrared COM port for easy syncing to StressVest® and Instructor CQT Tablet.

LED display shows Mode, number of Hits, and Shock Level.

Hits counter displays number of Hits to StressVest®.



FRONT VIEW

Adjustable Shock Level: 1-Low to 5-Extreme

STRESSX® PRO BELT FUNCTIONS

Durable and weatherproof glass filled nylon

Convenient USB port for remote software upgrading and recharging battery.



BACK VIEW

Six electrodes deliver safe, localized shocks to abdomen through clothing.

Moisture resistant smooth surface for easy cleaning.

StressX[®] PRO Advanced Training Modes

ROLE PLAYER MODES

- (Ensure SHOCK light is not illuminated)
 - 1 Vibrates every hit.
 - 2 Vibrates after two hits 3 - Vibrates after three hits

MOVE TO COVER MODES

(Pain Penalty Increases with Each Subsequent Hit)

- 6 Vibrates 1st hit, 2nd begins shock
- 7 Shocks 1st at Low then increases 8 Shocks 1st at Med then increases

STRESS EXPOSURE MODES

- (Set Appropriate Shock Level for Student)
 - hocks every hit. **5** - Vibrates 1st hit, then shocks

INJURED OFFICER MODES

(Shock Continues to Fire Randomly for Set Time Period After First Hit) 9 - Shocks randomly - 10 seconds 10 - Shocks randomly - 20 seconds 11 - Shocks randomly - 30 seconds 12 - Vibrates randomly - 30 seconds

Electrical Safety Specifications

Power Source: 3.7 Volt Rechargeable Battery Shock/vibration Location: Belt Worn Externally on Stomach

Maximum Voltage: 4,500 Volts

Maximum Amperage: Less than 1mA over a maximum

discharge duration of 150msec

Maximum Joules: 0.092 Joules (92mJ)

International Electro Technical Commission - Electrical Safety Standard

The effects of electrical current passing through the human body are covered at length in the international Electro Technical Commission document IEC 479-2:1987. The Document states that a transient or capacitive discharge, as is the case with static electricity, requires energy in excess of 5 Joules (5000mJ) to produce a direct serious risk to health. The discharge of the StressVest® is 98% lower than this threshold.

THE STRESSVEST SYSTEM DELIVERS A SAFE, LOCALIZED, ELECTRICAL DISCHARGE.

Increase Your Target Zones



FACE SENSORS AND SIDE PANELS

The StressVest® was specifically designed to reward center mass incapacitation hits to the front and back of the torso. The addition of a face sensor and side panels will take your training to another level.







Side Panels

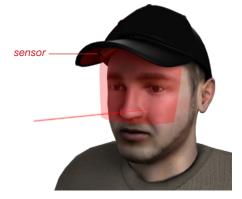
Features

StressVest® Face Sensors are fully integrated into the system. The electronics can be pre-assembled into any headgear, but presently come in either Black Baseball Cap or SWAT/Military Goggles.

Senses Hits To The Upper Facial Region

The StressVest® Face Sensor system uses the most advanced sensor technology in the world to capture laser hits to the upper facial region.

Sensors on the underside of the front of the Goggles and the visor of the Baseball Cap pick up any hits to the upper facial region. This registers a hit for either students or role players and will deliver either a shock or vibration depending how the StressX® PRO belt has been configured.



Red indicates where the laser activates the sensor



Side Panels

The addition of the side panels rewards students for incapacitation hits to the vital organs on the side of the body.

NEW! StressVest® Arm Shocker

You can't cut the pie without an arm. One of the most neglected tactical skills is keeping limbs tucked in tight when slicing the corner of a structure. Often students lead with their arm instead of their eyes. The arm shocker delivers a safe, localized shock through one layer of clothing to simulate a dominant arm injury forcing the student to continue the fight with their non-dominant hand. Features Advanced Training Modes and adjustable pain penalty. Multiple activation methods include an instructor key fob, laser strike to the sensors on the arm shocker or StressVest®.



CQT Instructor Tablet

The CQT Instructor Tablet remotely configures and controls up to 20 StressVests®. The CQT Instructor Tablet manages and interacts with scenarios from start to finish to give the Instructor unprecedented control of the training environment from activating individual StressVests® to rendering all StressVests® inert. Real time data includes seeing hits and monitoring trainees heart rates. Use the CQT Instructor Tablet's camera to record and play back scenarios.



Features

REMOTE STRESSVEST® ACTIVATION

Activate any single StressVest® or "Hit All".

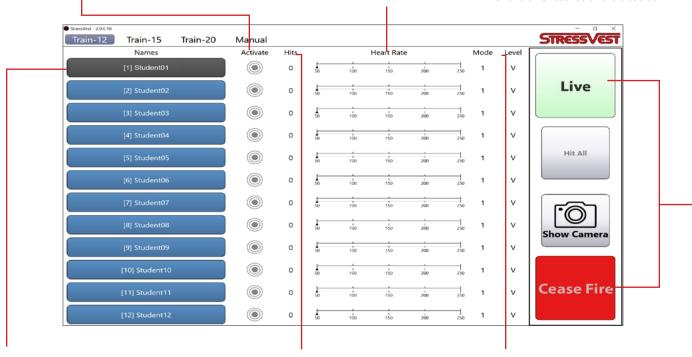
MONITOR STUDENTS HEART RATES

Provides real time heart rate monitoring during scenarios. Records high and low heart rates for debriefing.

*CQT Instructor Tablet comes with two Heart Rate Monitors. Additional Heart Rate Monitors can be purchased separately.

SCENARIO EXECUTION

All StressVests® are not enabled until the Instructor presses the Scenario "Live" button. To stop a scenario the Instructor presses "Cease Fire" and all StressVests® are disabled.



IDENTIFY TRAINEES / ROLE PLAYERS

Input name and/or badge number. Role Player (Blue) and Trainees (Grey).

RECORDS HITS

Allows Instructor to verify hits in real time.

CUSTOMIZED TRAINING MODES

Adjust & customize each StressVest® including shock (student) or vibrate (role player), shock level, and training mode. Advanced Training Modes include Stress Exposure, Move to Cover, Injured Officer and Role Player Modes.



Tablet Infrared COM Port

StressX® PRO Belt

WIRELESS BELT INTEGRATION

Each individual StressX® PRO belt is synced to the StressVest® CQT Instructor Tablet. Depending on the setting, the StressVest® wireless system will deliver a vibration for role players or a shock for students. The shock is adjustable to ensure the appropriate pain penalty for the level of the student.

FULL HD VIDEO CAMERA

Enables recording for instant student feedback and remediation. Archive videos for learning/demonstration purposes.



Methods of Activation





Dry Fire, CO2, or Blank Fire Training System



Laser Pulse to Front/ Back or Side Panels



Vest Receiver



Activates Individual StressVest®



Vibration or Pain Penalty



Dry Fire, CO2, or Blank Fire Training System



Laser Pulse to Face Sensor



Face Sensor



Activates Individual StressVest®



Vibration or Pain Penalty



StressVest® IED Adaptor &Training IED's



Detonation of Training IED



Multiple StressVests®



Activates all StressVests® within preset "Kill Radius"



Vibration or Pain Penalty



StressVest® CQT Instructor Tablet



Instructor Initiated Remote Activation



Individual or Multiple StressVests®



Activates Individual or all StressVests®



Vibration or Pain Penalty



StressVest® Handheld Laser Activator



Laser Pulse to Front/ Back or Side Panels



Vest Receiver



Activates Individual StressVest®



Vibration or Pain Penalty



DID YOU NOTICE THE REALITY BASED TRAINING GEAR?



THAT'S OK... NEITHER DID THEY.

S. W. A. T.

The StressX® Tactical



OVERVIEW

At the request of Special Forces Groups and S.W.A.T. operators around the world, StressVest® has created the new StressX® Tactical system. The system allows operators to train with the StressVest® system, without the need for vest panels that can interfere with equipment mounted to load bearing vests.

The system is designed specifically for S.W.A.T. and Special Force teams who want to conduct the most realistic training scenarios possible without having the training gear that restricts normal operation of their equipment and weapons systems.

The StressX® Tactical non-invasive sensor design allows operators to train with their weapons and equipment in the exact same manner as they would during a real world encounter.



STRESSX® TACTICAL CONTROLLER







BELT SHOCKER



ARM BAND SHOCKER

BENEFITS:

- **NO FACE MASK.** No face mask to interfere with obtaining proper sight alignment on long guns.
- **NO VEST PANEL.** No vest panel is required. This allows access to equipment mounted to load bearing vests.
- MULTIPLE FEEDBACK METHODS. Select from vibration or six levels of pain penalties.
- **MULTIPLE MODES.** Multiple modes designed to maximize specific training scenarios including modes that allow for injury simulation.
- CUSTOMIZE YOUR MODES. Customizable modes available on request.
- **SIMULATE ARM INJURY.** Ability to deliver pain penalty to arm which simulates dominant side injury.
- **INTEGRATED TRAINING IEDs.** Will integrate with complete line of StressVest IED training devices.

The StressX® Tactical



Hit Kit™ Helmet

The StressX® Tactical is specifically designed for CQT training such as room clearing, hostage rescue and building searches where firearm engagement occurs within 45 feet of the adversary. Role players are outfitted with a specific Role Player StressVest® that is designed to be hidden under a single layer of clothing and will only activate when accurate shot placement is displayed by your operators. Add the face sensor to your role player and create hyper realistic body armour drills.

NOTE: The StressX® Tactical is optimized for indoor training. It is not designed for mid to long range encounters outdoors. If this type of training is desired, please utilize the traditional StressVest® sensor vest.



Officer equipped with StressX® Tactical System



The StressX® Tactical Controller is 100% compatible with the traditional StressVest sensor vest.

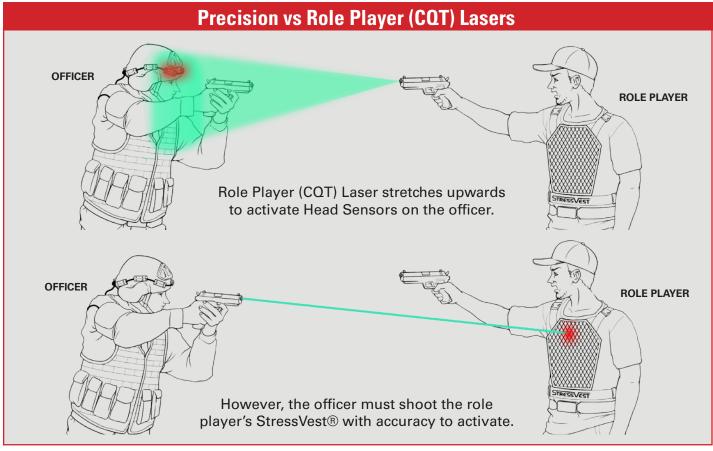
NEW IMPROVED BELT SHOCKER

- » Delivers safe localized shock
- » Up to Level 6 of pain penalty
- » Military Specifications
- » Improved durability and water resistance
- » More compact



How Does The StressX® Tactical System Work?



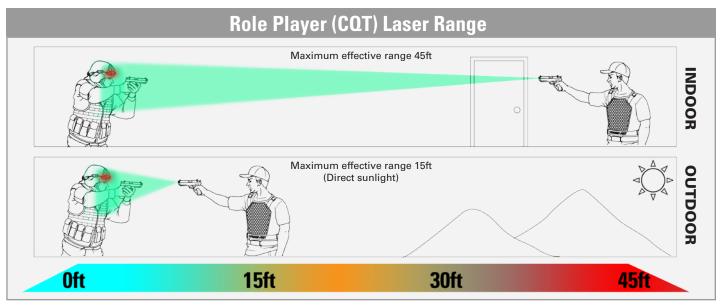


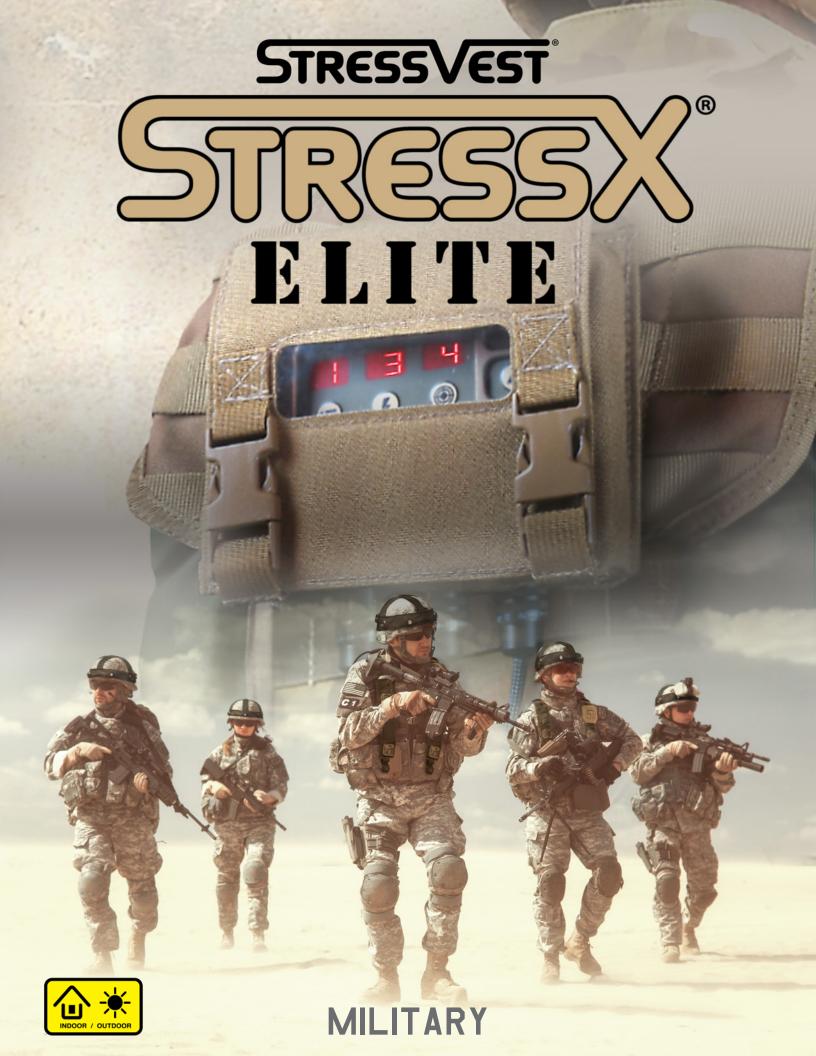
Precision Laser - Point of aim accuracy required. Forces your officers to shoot accurately under stress.



Role Player (CQT) Laser -The Role Player (CQT) Laser is designed to work in conjunction with the Hit Kit Sensors as illustrated on the officer below.







The StressX® Elite



OVERVIEW

Utilizing safe, localized and adjustable electrical impulses, the StressX® ELITE is the world's most advanced haptic feedback system for combative training.

Designed to meet the rigors of military training, the StressX[®] ELITE can be integrated with existing M.I.L.E.S. gear, StressVest[®] receivers, and/orTraining IED's.

The Belt Shocker is placed around the waist of the soldier beneath their ballistic vest. When activated, it will deliver the instructor specified electric pulse stimulus. An Arm Shocker can also be attached to affect the dominant shooting arm of the soldier.



STRESSX® ELITE CONTROLLER



BELT SHOCKER



ARM BAND SHOCKER

INTRODUCE A **SAFE PAIN PENALTY**TO MILITARY COMBAT TRAINING

NEW REDUCED SIZE SHOCKER

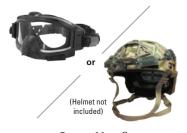
BENEFITS:

- STRESS EXPOSURE TRAINING. Adjustable pain penalty (Shock Level 1 6) allows the instructor to set the appropriate pain penalty to match the performance level of the student being trained.
- MULTIPLE TRAINING MODES. Allows users to simulate battlefield injuries or increase the pain penalty each time the soldier is hit.
- CUSTOMIZE YOUR MODES. Customizable modes available on request.
- · SIMULATE ARM INJURY. Ability to deliver pain penalty to dominate side arm to interfere with shooting platform.
- INTEGRATED TRAINING IEDs. Will integrate with training IED devices using StresssVest® Multifunction IED Adaptor.

StressX® Elite can be used with *TRADITIONAL STRESSVEST®*, *STRESSVEST HIT KIT™ SENSORS*, or *M.I.L.E.S.* gear used by most Special Forces and military agencies.



Traditional StressVest® System



StressVest®
HIT KIT™ Sensors
(Hit Kit Goggles or Helmet)





M.I.L.E.S System



Training Weapon Options



BLANK FIRE

StressVest® has partnered with UTM™ to create StressVest® UTM™ Conversion Kits that are compatible with a StressVest® laser insert. With each blank round fired the laser insert will emit an eye safe laser pulse that will activate the StressVest® giving you the most realistic non-projectile force on force training possible. Also available for carbines using UTM™'s 5.56mm blank.



StressVest[®] UTM[™] Pistol Conversion Kits

- Most Conversion Kits are a simple barrel/chamber replacement.
- Laser Insert is threaded into front of barrel (Precision or Role Player (CQT) laser).
- Barrel is blocked and dedicated for blank fire training requiring only safety glasses.
- Each blank round fired will emit an eye safe laser pulse that activates the StressVest® giving the most realistic non-projectile force on force training possible.
- Currently available for most pistols including Glock, SIG Sauer, Beretta, and H&K.



StressVest® UTM™ Rifle and Submachine Gun Conversion Kits

- Conversion Kit is a simple drop in bolt replacement.
- Barrel Mount Laser Insert mounts on the end of the barrel of a converted carbine or rifle.
- With each 5.56mm blank fired an eye safe laser pulse is emitted that will activate the StressVest® giving the most realistic nonprojectile force on force training possible.

*Note: All StressVest® UTM™ Conversion Kits require a StressVest® Blank Fire Laser Mount (Precision or Role Player (CQT) laser)



StressVest® UTM™ Conversion Blanks

- Train anywhere, no longer real estate/terrain, or location dependant.
- Train with minimal Personal Protective Equipment (PPE) Safety Glasses Only.
- Use your weapon without a Blank Firing Attachment (BFA).
- Simple weapon conversion kit design prevents "Live" rounds from being fired.
- Simple clean up, No Lead, and 100% Tox Free.
- · Available in 9mm or 5.56mm.



Training Weapon Options







StressVest® has partnered with some of the leading manufacturers in the world of training lasers, training firearm conversion kits, and dedicated training pistols. The following training firearm options do not fire any type of projectile and all deliver an eye safe laser pulse that was specifically engineered to activate the StressVest®.

DRY FIRE

Dry Fire training weapon options are available in dedicated handgun replicas and also cartridges that function in any 9mm, .40/.45 Cal and 38 Special/357. Shotgun adaptor is also available.



SIRT Trainer
Dedicated Training Pistol



SMART Firearms Training Gun
Dedicated Training Pistol



Laser Ammo SureStrike Cartridge



Laser Ammo 12G Shotgun Adaptor



Portable Sound System (Audio Solution for Dry Fire)

- Audible shot sound with each trigger pull of SIRT RF Pistol
- Plug-in or battery operated
- 3 Channel Instructor key fob for additional sound effects (screaming crowds, explosions, alarms, machine gun fire, etc.)
- · Auxiliary input to play your own sound files
- · Works with current SIRT RF Trainer model



ELECTRIC / CO2 RECOIL / AIRSOFT

Dedicated M4's available, as well as drop in CO2 recoil kits for most semi-automatic and automatic firearms.



Electric M4
Dedicated M4 Training Rifle



Laser Ammo Spider Adaptor



DVORAK CO2 Recoil System Kits

Precision vs Role Player (CQT) Laser







Dramatically increase hit ratios with the new Role Player (CQT) laser!

Unlike the current Precision laser that demands point-of-aim accuracy, the Role Player (CQT) laser allows for a larger surface area activation. It is the best solution for training tactics and decision-making with firearms during scenarios where engagement occurs within 45 feet. The Role Player (CQT) laser is available for both handguns and long guns.



The Role Player (CQT) laser is designed to replicate the same operational accuracy of the most commonly used marking round munitions.



Precision Laser 15ft



Role Player (CQT) Laser 15ft



Role Player (CQT) Laser 15ft



BENEFITS:

- The Role Player (CQT) laser provides a larger activation area, ensuring activation of the StressVest® even when it is partially obstructed by the arms or weapons of the individual wearing the vest.
- The vertically aligned, elongated shape of the Role Player (CQT) laser beam limits the degree of left to right aiming variance, forcing a higher degree of accuracy compared to other cone shaped laser systems.
- Effective range out to 45 feet!
- Will work with HIT KIT[™] Goggles. The kit eliminates the need to wear the vest system, perfect for S.W.A.T. and military wearing tactical vests.

LIMITATION:

• The Role Player (CQT) laser is primarily designed for indoor use. The effective range of the Role Player (CQT) laser is limited in direct sunlight. (Use StressVest® Precision laser for outdoor training requiring greater distances.)

Integrated Training IED







The IED Adaptor integrates ANY training IED such as SimBlast™ with the StressX® Elite (also compatible with StressVest® and StressX® Tactical) producing the world's first IED training system with pain penalty. Preset your "kill radius" from 0 to 100ft and all StressVests® within that radius will be activated upon detonation.







Features

STRESSVEST® IED ADAPTOR

When the IED is detonated it will activate the StressVest® IED Adaptor that will send a signal (LED and/or RF) to the StressX® Elite. The StressVest® IED Adaptor is also compatible with StresVest® and StressX® Tactical system.

When the StressX® Elite is activated it will deliver either a pain penalty (shock) or vibration depending how they have been set up by the Instructor. Place the StressX® Elite in Injured Officer Mode for the added training benefit of teaching students the proper mindset for winning encounters.



SIMBLAST. TRAINING IEDS

The patent pending SimBlast™ is a training IED that uses a single 209 primer to safely simulate a blast activated by a tripwire pipebomb. Also available in StressVest® Suicide Training Vest.



StressVest® Reality Based Training Instructor Certification

COURSE OVERVIEW

The StressVest® RBT Instructor Course is designed to teach safe use of the StressVest® System, reality based scenario and delivery, threat cue and pattern recognition drills, and role player strategies. This course will educate Instructors on the most up-to-date advancements in scenario and stress performance based training. This dynamic course has many practical hands-on exercises and informative videos designed with the Instructor in mind.

COURSETOPICS:

StressVest® Operation & Safety

The StressVest® system is the most advanced, force on force training system available. Safe and appropriate use of the StressVest® system will be discussed along with blank fire, dry fire and CO2 recoil training weapon options. This section also teaches how to utilize the software-based controller that allows for various modes of operation that can radically enhance performance of your students. This includes Stress Exposure, Move to Cover and Injured Officer modes.

Understanding Human Performance Under Stress

The most advanced research and application methods in the area of human performance under stress will be examined. Stress Inoculation and Stress Exposure training will be directly covered. This section is a must for any Instructor desiring to develop themselves as a court declared expert in the area of police use-of-force dynamics.

Testing Performance Under Stress

Scenario based training is simply the most effective way to ensure your students are prepared to respond appropriately during a real world encounter. Instructors will be shown how to effectively design testing scenarios that will identify individuals who require remedial training. The system of testing will also assist in identifying the type of remedial training required to quickly bring the student up to the desired level of performance.

Pattern Recognition & Response Training

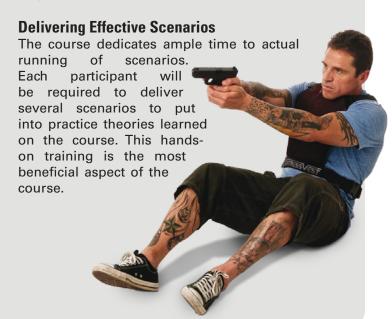
Traditional Stimulus - Response training is not reflective of most real world encounters. A review of most encounters shows a laundry list of threat cues leading up to the final threat stimulus. This area of training will have the most profound effect on the performance of your students but is often the most overlooked and underutilized area of training. This section of the course will forever change the way you approach training your students for the real world.

Being An Effective Role Player

Role playing is the most important aspect of scenario based training. Regardless of how well structured a scenario has been formed, inadequate role playing can render the scenario useless. Instructors will be shown how to identify candidates for role playing, how to properly prepare the role player for the scenario, and how to control the role players performance during the scenario. This section of the course alone will dramatically improve your existing program.

Designing Effective Scenarios

To design effective training scenarios, instructors must ensure that the scenario is clear and concise, and built to drive the student to reach the desired objective. Too often scenarios ramble on with ambiguity, causing confusion and failure with students. This section will teach Instructors how to maximize the use of every second during the scenario. The use of Stress Templates will be utilized to assist in developing scenarios that create the same stress responses that would be felt in a real world event.



The StressVest® Advantage



STRESS INOCULATION TRAINING

True Stress Inoculation Training requires an incremental exposure to a stressor. Since non-lethal training ammunition has a consistent mass and velocity, the pain penalty is not adjustable. The StressVest® has an adjustable pain penalty that allows the instructor to set the penalty to the appropriate level of the student being trained.



GREATER SAFETY & REALISM

Since the StressVest® system utilizes eye safe lasers and no projectiles, it allows a safety template never before seen in force on force training. There is no longer a fear of unprotected individuals entering the training area. Training does not require special protective equipment that covers body language, facial cues and recognition.



CENTER MASS REWARD SYSTEM

One of the most common complaints from firearms instructors conducting force on force training is that students are rewarded regardless of their shot placement. The StressVest® only activates when hit in the upper torso region.



COST SAVINGS

There are several training firearm options available for use with the StressVest®. This includes dry fire, CO2 recoil, and blank fire kits. No additional costs are incurred for additional protective equipment, non-lethal training rounds or extra safety personnel.



NO DAMAGE OR CLEAN UP

The StressVest® system allows for training in the actual environment that law enforcement and military conduct their business without worry of damage or messy clean-up. Train anywhere . . . anytime.



REALISTIC SHOOTING DISTANCES

The accuracy and distance using lasers is a ballistic match to the issued ammunition. This includes the ability to shoot through windows or windshields.



ADVANCED TRAINING MODES

The StressX® PRO Wireless Belt allows for several modes:

Stress Exposure Mode: The level of shock can be set for each individual student.

Move to Cover Mode: Each successive hit will result in an increase in pain penalty. This will force the student to move during the fire fight.

Injured Officer Mode: After the student is hit, they will continue to receive a random pain penalty for the rest of the scenario. This teaches students proper mindset for winning encounters.

Role Player Mode: Delivers a vibration instead of a pain penalty. The StressVest® can be set to activate only after a specified number of hits occur.

FORCE ON FORCE FIREARM TRAINING COMPARISON

Non-Projectile
No Face Mask Required
Creates Stress
No Neck & Groin Protection Required
Method to Record Hits
Realistic Weapon Systems
No Clean Up
Dry Fire, CO2/Electric Recoil & Blank Fire Options
Injured Officer Simulation
Can "Shoot" Through Glass
Adjustable Pain Penalty
Accuracy at Distance
Instructor Initiated Remote Activation
Advanced IED Integration



StressVest® Distinguished Customers



US Secret Service



New York/New Jersey Port Authority



US FBI Academy



Air Force Space Command



US Dept. of Homeland Security



US National Security Agency



San Bernardino County Sheriff



US Navy Military Police



US Federal Law Enforcement Training Centre



US Department of Energy



US National Reconnaissance Office



Houston Police Department



US Pentagon Force Protection Agency



US Federal Reserve Police



US Defense Intelligence Agency



Numerous Special Force Groups



Abu Dhabi Police Department



Dubai Police Department (SWAT)



Egyptian National Police



Australian Federal Police



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