

SHVAN WARRIORS ASSOCIATION (SHWAAN)

EXPLOSIVE DETECTION TEST

This test will determine the proficiency and reliability of dogs in the detection of explosives. **No electronic collar will be permitted to be worn by the K9 during Explosive Detection certification or training regardless whether or not it is active or inactive.**

All canine teams must be tested on ALL basic odors. The basic odors to be tested on are:

- 1.) Powders (Black, Smokeless and/or Pyrodex)
- 2.) Commercial Dynamite (AN or NG)
- 3.) (RDX) Plastic Explosive (C-4 or Flex -X) Semtex, A5
- 4.) T.N.T or Military Dynamite or Comp B
- 5.) (PETN) Primer Cord or Det Cord – Sheet Explosives (or substituted explosive with PETN, Master Trainer Discretion)
- 6.) Water-Gel or Slurries and Emulsion

In addition to the basic explosive odors and at the discretion of the Master Trainer additional types of oxidizers may be utilized for testing.

- Sodium Chlorate / Perchlorate
- Potassium Chlorate / Perchlorate Potassium Nitrate
- Ammonium Nitrate
- Improvised Explosives:

Peroxide Based Explosives – Any type of explosive deriving its base from hydrogen peroxide.

TATP - (Triacetone Triperoxide) A mixture of Acetone, Hydrogen and a Strong Acid.

HMTD - (Hexamethylene Triperoxide Diamine) A mixture of Hexamine, Hydrogen Peroxide and Citric Acid.

Nitrated Explosive – **Urea Nitrate – Urea & Nitric Acid**

Due to the increased popularity of improvised explosives, nitrated and peroxide based explosives used by terrorist elements worldwide, it is recommended that the current testing standard include peroxide based and nitrated explosives when available. Once the six (6) basic odors are tested and Peroxide Based and Urea Nitrate Explosives are available, at the Master Trainer's discretion, the Certification Test may include Peroxide Based Explosives and/or Urea Nitrate. Due to the sensitivity and safe handling of the explosive compounds listed, it is recommended that an exception to certification weights be allowed. Current availability of Peroxide Based Explosives is limited to one (1) to two (2) grams in order to handle and transport the explosives safely. It is further recommended that at least one (1) gram of the explosive compound be used during testing and not "trace" amounts.

The maximum weight of explosives used shall be unlimited; however, a minimum of 1/2 pound shall be used for testing **except for the Peroxide Base Explosives. Those weights are written above.** Each area tested will contain three (3) aids. Each aid will be a different explosive. The handler will not be informed of the actual type of explosive training aids being utilized for testing. The term "explosive aid" will mean any explosive substance used for SHVAN WARRIORS ASSOCIATION (SHWAAN) certification testing.

Explosive Odor Recognition Assessment (Optional):

The main purpose of the Explosive Odor Recognition Assessment is not meant to be a pass / fail test but rather an assessment tool by the Master Trainer on the first day of the training / certification workshop. The Odor Recognition Assessment is designed to assess the canine's ability to detect the required explosive odors and to improve the K-9 team's proficiency on the odors their having difficulty detecting.

The Explosive Odor Recognition Assessment is strictly optional at the discretion of the Master Trainer. If the Master Trainer has a large number of K-9 Teams, he/she may not have time to conduct an Odor Recognition Assessment. If the Master Trainer chooses, he/she can attempt to imprint the canine on the odors missed in the Explosive Odor Recognition Assessment. The K-9 Team can choose to attempt certification regardless of how they did in the odor recognition Assessment.

The Explosive Odor Recognition Assessment is not meant to replace any other federal, state or local agencies Odor Recognition Test or program. The following is a guideline in setting up the Explosive Odor Recognition Assessment:

The Odor Recognition Assessment consists of 20 one-gallon metal paint cans or concrete blocks. Inside each one gallon can or block should be a smaller quart can. The purpose of the smaller quart paint can is to hold the training aid and to help prevent the dogs from getting the explosive training aids. The smaller quart paint cans should have lids on them with a minimum of eight (8) 1/16-inch diameter holes in each lid.

The selection and quantity of explosives used in the Odor Recognition Assessment are left up to the discretion of the Master Trainer. The selection of explosives / oxidizers used should be from the approved list of basic odors, oxidizers or improvised explosives. The intent is to use the same odors in the assessment that will be used during the certification test. Caution should still be taken to prevent the canines from getting the training aids. The containers can be set up in a straight line or a large circle.

Many agencies who currently have odor recognition test are mission specific. Some agencies are looking for trace amounts as well as larger amounts. Many other agencies don't want their canine's threshold brought down so low. Each one of these mission specific canine programs plays a very important role in fighting both domestic and international terrorism. Our Master Trainers work with a wide range of canine teams with different missions.

The intent of giving the Master Trainers the discretion on the amounts is to give the Master Trainer flexibility in working with these different teams without changing the way the canine teams have been trained.

The containers used in the Odor Recognition Assessment should be one-gallon metal cans or 8 in. x 8 in. x 16 in. concrete blocks. The containers used should be kept as sterile as possible. Note: If training with peroxide based explosives i.e. TATP and HMTD, concrete blocks should be used for safety reasons.

Each large circle or straight line should have ten (10) one-gallon paint cans with a quart can inside evenly spaced about 3 feet apart from each other. Five (5) of the cans in each circle

or straight line should have a small amount of a target explosive odor. The five (5) other one gallon cans in each circle or straight line should contain small amounts of distracter odors commonly found during searches i.e. dried cat food / dog food, pieces of rubber gloves, pieces of kongs and tennis balls, etc.

The canine should show a change in behavior and a recognizable passive alert on each can or block containing an explosive training aid. The canine should detect all 10 explosives odors with no team miss. To make the cans more stable so the dogs will not knock them over, each one-gallon can should be screwed down to a 12-inch x 12-inch square piece of plywood board using a ½ inch screw. Cost of the materials and equipment is the responsibility of the host or requesting agency.

Five (5) areas will be provided for testing. The canine team will be tested in four 4) of the five (5) areas. The five (5) areas will be:

- 1.) Building (see page 25 for definition)
- 2.) Vehicles (see page 25 for definition)
- 3.) Baggage (see page 25 for definition)
- 4.) Open Area (see page 25 for definition)
- 5.) Aircraft, Watercraft or Mass Transit Vehicle (see page 26 for definitions)

The canine team must search the areas of Building, Vehicles and Baggage. The fourth area will be either Open Area, Aircraft, Watercraft or Mass Transit Vehicle.

To successfully test for certification, **the dog's final response must be passive** and the canine team **CANNOT miss more than one (1) explosive aid in all phases of testing**. A "**team miss**" is defined as any incorrect response by the K9 team. This **includes but is not limited to:**

- 1.) All improper responses (such as the dog giving its final trained response to non-explosive odor).
- 2.) Failure to detect the explosive aid (includes when the handler fails to direct the K9 to search the area where the explosive aid is hidden).
- 3.) The K9 exhibiting any Aggressive Response.
- 4.) Exceeding the allotted testing time.
- 5.) Opening of any closed doors, drawers or containers of any kind by either the handler or K9.

If the testing K9 team has more than one (1) team miss, which is a failure, then the K9 team MUST RETEST in ALL PHASES and in ALL ODORS that they are seeking accreditation for.

All testing will be done on a pass/fail basis. The minimum acceptable level required to pass is 91.6% as defined by the SHVAN WARRIORS ASSOCIATION (SHWAAN) explosive detection rules. It is recommended that testing be administered over a two (2) day period or more. The final decision as to the length of the testing period shall rest with the Master Trainer conducting the certification. All aids will be placed at least thirty (30) minutes prior to the testing of the canine team. **NO DETONATING DEVICES WILL BE allowed to be used for testing or**

BE PLACED WITH THE EXPLOSIVE TRAINING AIDS! ALL HANDLING OF EXPLOSIVE TRAINING AIDS WILL BE DONE IN A SAFE MANNER! If an explosive aid requires being moved to a new location, the previously used area will be removed as a testing sight. An Accredited

SHVAN WARRIORS ASSOCIATION (SHWAAN) Master Trainer in Explosive Detector Dogs will conduct all testing.

Prior to the first explosive detector team entering the test area, a human and canine will walked through the testing area. Prior to testing, each handler will brief the Master Trainer as to the particular dogs alert and response to the explosive aids. Each indication to an explosive training aid by the canine will be obvious to the Master Trainer. Prior to each phase, the Master Trainer will inform the handler of the boundaries, time, starting point, etc. of the search problem. With the exception of an Aircraft Search, **a maximum time limit of thirty (30) minutes will be allotted for each phase of testing.**

There is no maximum time limit during an Aircraft search. The Master Trainer can terminate the test and fail the team if at the discretion of the Master Trainer the team is **not** working. The Master Trainer will maintain the time limit during the testing and will begin when the canine team begins to search. The test time will stop upon the handler's indication that the search is complete or the time expires. Conversation between tested and untested handlers will not be allowed while testing is in progress. Handlers undergoing testing will not be allowed to observe other canine teams during the testing procedure.

No overly harsh or inappropriate physical corrections by the handler to the dog will be permitted. At the Master Trainers discretion, any such behavior will be grounds for a failure of the Explosive Detection Test.

The purpose of accreditation testing is to observe the team's ability to locate a hidden explosive. It should be noted that all explosive aids may not be pinpointed to source by the dog due to height, wind current or placement of the aid. The Master Trainer will exercise reasonable judgment and the handler should consider all changes in behavior by the dog towards explosive odor.

Each certification certificate will be valid for one (1) year from the date of the test. It should be noted that normal training and retraining of the canine team must be conducted to maintain and enhance the team's capability.

All explosive aids used in testing should be of recent manufacture and in separate containers. It will be the responsibility of the agencies being tested to provide the required explosive aids. All explosive aids utilized for testing will be actual explosives. No pseudo or non-explosive substitutes will be used for testing. STRICT SAFETY MEASURES will be upheld during testing! All outdoor testing will immediately discontinue with the imminent threat of any inclement weather that is associated with lightning. All explosive aids will be placed in such a manner that the dog cannot touch or retrieve same.

BUILDING SEARCH (mandatory):The building search will consist of four (4) rooms to be searched by the canine team. Each room will be a minimum of 400 square feet in size and contain some type of furniture. Only one (1) explosive aid will be placed within each room. One room will be blank, containing no explosive aid. The explosive aids will be placed anywhere from eight (8) feet high to ground level. The handler and/or dog will not open any closed doors, cabinet's desk drawers, etc. during testing.

VEHICLE SEARCH (mandatory):A minimum of eight (8) motor vehicles will be utilized for testing. Any type or model of passenger vehicle, including pickup trucks, tractor-trailers, vans and buses may be utilized for testing (subject to availability). The vehicles will be parked in a configuration similar to a parking lot in order to allow access to each vehicle by the canine team being tested. Only one (1) explosive aid will be placed on or in each vehicle. **One (1) explosive aid must be placed inside of a closed engine compartment.** Additional explosive aids will be placed on or within the vehicles at the discretion of the Master Trainer; recommended but not limited to:

- 1.) Fuel tank exterior or fuel filler pipe.
- 2.) Drive shaft.
- 3.) Interior of closed trunk compartment.
- 4.) Closed passenger compartment.
- 5.) Undercarriage.
- 6.) Outer body.

BAGGAGE SEARCH (mandatory):The type of baggage utilized for testing will be defined as hard and soft shell suitcases, attaché, cases, clothing bags, briefcases, golf bags, sea bags, duffel bags, boxes, parcels and any other containers used for the transport of personal items or shipping purposes. The Master Trainer will have ultimate discretion over the types of bags utilized for testing. A minimum of fifteen (15) bags will be utilized for testing. All explosive aids will be secured within each bag utilized for testing. One (1) or more bags should contain clothing or other items associated with the types of baggage used. The baggage should be placed in a straight line and broken up into rows.

OPEN AREA SEARCH:Open area search shall be defined as: 1.) Building Exteriors. 2.) Open fields. 3.) Wooded areas. 4.) Any area outside not covered in the above.

The Open Area utilized for testing will be no larger than 100 yards by 100 yards (300 feet by 300 feet) and no smaller than 50 yards by 50 yards (150 feet by 150 feet) or any configuration thereof. At the discretion of the Master Trainer, all explosive aids will be placed from one (1) foot below surface level to a maximum of eight (8) feet above surface level.

Important Notice regarding Aircraft, Watercraft and Mass Transit Vehicles used during SHVAN WARRIORS ASSOCIATION (SHWAAN) Certification Testing:

It is **highly recommended by SHVAN WARRIORS ASSOCIATION (SHWAAN)** that the testing Master Trainer record the Registration numbers of Aircraft, Watercraft, or Mass Transit Vehicles used during the Certification Test on the SHVAN WARRIORS ASSOCIATION (SHWAAN) Certification Test sheet. This high recommendation is due to the wide use of Aircraft, Watercraft, and Mass Transit Vehicles in SHVAN WARRIORS ASSOCIATION (SHWAAN) Certification Testing and the possibility of inadvertent odor contamination of these Aircraft, Watercraft, and Mass Transit Vehicles and the further possibility of these being used again for Certification Testing and/or training in other jurisdictions. The registration numbers noted on the SHVAN WARRIORS ASSOCIATION (SHWAAN) Certification Test sheet would afford The SHVAN WARRIORS ASSOCIATION (SHWAAN) an ability to track Aircraft, Watercraft, and Mass

Transit Vehicle used in Certification Testing, should there be a need. **Registration Number:** Is any identifying number, either permanent or temporarily, assigned to an Aircraft, Watercraft, or Mass Transit Vehicle.

AIRCRAFT SEARCH:

The availability of aircraft will be the deciding factor in this phase of testing and at the discretion of the Master Trainer. Commuter, commercial and military aircraft capable of carrying a minimum of 16 people may be utilized for this test phase. Inoperable aircraft (used for ground training purposes only but mechanically incapable of flying) are acceptable for certification purposes. The search shall include the interior and exterior of the aircraft along with all ground support equipment. One (1) explosive aid will be placed in the interior of the aircraft. The interior of the aircraft includes the passenger compartment, cockpit, lavatories and cargo compartments. Additional explosive aids may be placed at the discretion of the Master Trainer either inside or outside the aircraft. The exterior of the aircraft includes the landing gear, wings, engines and ground support equipment. **There is no time limit during the aircraft search test. Strict safety measures while working inside of a busy airport will be adhered to. All explosive aids used will require the use of a "Barrier" object such as a towel, paper towel, cardboard, etc., to prevent the explosive aid from coming into direct contact with any physical part of the aircraft, causing residue contamination.**

WATERCRAFT SEARCH:

The availability of watercraft will be the deciding factor in this phase of testing and at the discretion of the Master Trainer. The types of watercraft used for testing shall be, but not limited to, cruise ships, freighters, cargo ships, tug boats, barges, military vessels or any other type of watercraft with an open deck and an interior cabin area. One (1) explosive aid will be placed inside of an interior portion of the watercraft such as a cabin, wheelhouse, cargo compartment or engine room. Two (2) explosive aids will be placed on or about the open deck area of the ship or dockside support equipment.

Strict safety measures while working near the water and around steep stairwells, which are the norm for many ships, will be adhered to. The Master Trainer will use discretion in placing explosive aids in a location that may expose the canine team to the risk of falling overboard or being injured by deck equipment. On smaller watercraft, personal flotation jackets should be utilized.

MASS TRANSIT VEHICLE SEARCH:

The availability of Mass Transit Vehicles will be the deciding factor in this phase of testing and at the discretion of the Master Trainer. Passenger trains, subways, overhead rail and commercial touring buses will be utilized for testing. A minimum of one (1) explosive aid will be placed in the interior of the mass transit vehicle. Additional explosives may, at the discretion of the Master Trainer, be placed either inside or outside of the mass transit vehicle. The exterior includes support equipment, loading docks, platforms and baggage handling equipment. **Strict safety measures while working near busy rail yards, depots and electrical equipment will be adhered to. All explosive aids used for testing will require the use of a "Barrier" object such as a towel, paper towel, cardboard, etc., to prevent the explosive aid from coming into contact with any physical part of the mass transit vehicle causing residue contamination.**

This certification will be valid for one (1) year from the date of issue as defined in Certification Validity paragraph. **There will be fee of Rs 1000 charged for SHVAN WARRIORS ASSOCIATION (SHWAAN) certification testing. A fee may be imposed to cover expenses of travel, lodging and meals only, if necessary.**