

SR-MP 5 MINUTE EXPECTATION TRAINING UNIT (SR-MP-5T)

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SR-MP-5T 5 Minute Expectation Training Unit Safety Guidelines:

THIS MANUAL MUST BE READ COMPLETELY BY ALL INDIVIDUALS USING, INSPECTING OR PROVIDING TRAINING FOR THE CSE SR-100 with the SR-MP-5T. The CSE SR-MP-5T will perform as designed only if it is maintained and used in accordance with the manufacturer's instructions and regulatory standards. **FAILURE TO FOLLOW THESE INSTRUCTIONS AND REGULATIONS COULD RESULT IN SERIOUS INJURY OR DEATH.**



WARNING

WARNING: The CSE SR-MP-5T 5 Minute Expectation Training Unit has been designed by CSE as a CLASSROOM TRAINING UNIT ONLY. Its purpose is only to allow the user to experience the sensations that are common with CSE's emergency escape apparatus. It is not intended for entry into or escape from atmospheres Immediately Dangerous to Life and Health (IDLH).

WARNING: The CSE SR-MP-5T is not approved for use as a Self-Contained Breathing Apparatus (SCBA) or Filter Self Rescuer (FSR) and should not be used for escape, rescue, fire fighting, underground training, or underwater breathing. Do not enter unventilated areas, such as sealed rooms, tanks, ducts, or even training galleries while training with the SR-MP-5T. Active training area ambient air must be a minimum of 19.5% Oxygen by volume at sea level.

WARNING: Do not use the SR-MP-5T to train in theatrical smoke. Misuse of the SR-MP-5T with chemicals generated by theatrical smoke may cause respiratory health issues.

WARNING: Calcium Hydroxide can react vigorously with concentrated acids and high concentrations of carbon dioxide.

WARNING: Do not submerge the SR-MP-5T canister in water or any liquid before or after use. Dispose of the SR-MP-5T canisters in a manner consistent with your federal, state, and local laws and regulations.

WARNING: Avoid direct contact with any chemical, fluid, or residue seeping from a spent unit as it may be caustic and result in chemical burns. Wear personnel protection (suitable protective gloves and safety goggles) when handling spent or damaged canister.

WARNING: Breathing through the SR-MP-5T differs from breathing ambient air; temperature and resistance will be slightly higher. This is normal during use and replicates the actual experience of wearing any CSE Self-Contained Self-Rescuer.

WARNING: Do not use the SR-MP-5T if you have respiratory or heart conditions.

WARNING: Do not use the SR-MP-5T if any of the following conditions exist: sealed storage bag is open or has been removed, or show indications of physical abuse (crushed, burnt, visible puncture holes, substantial cracks dents, or any other visible signs of trauma.)

WARNING: User must visually verify that the top and bottom filters are intact and there are no loose particles present prior to inserting SR-MP-5T mouthpiece into mouth.

WARNING: Never attempt to use a damaged SR-MP-5T.

WARNING: The SR-MP-5T Canister is intended as a one time use only product, once the unit is opened it is considered spent and should be disposed of properly. Spent units must be kept separate from new or unused units due to potential biological and chemical contamination.

WARNING: Before donning the SR-MP-5T remove any foreign matter from your mouth such as chewing tobacco or gum.

WARNING: As with the SR-100 do not attempt to talk while wearing SR-MP-5T, maintain a tight seal on mouthpiece and nose clip. Try to communicate via hand signals or writing.

CAUTION: The SR-MP-5T mouthpiece must be properly washed and sanitized after each use.

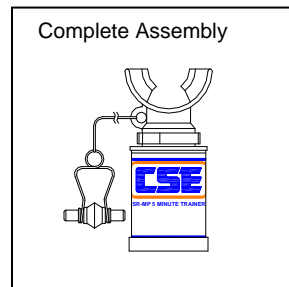
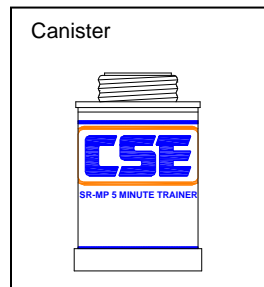
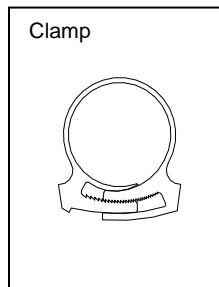
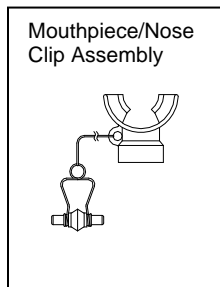
GENERAL DESCRIPTION

The CSE SR-MP-5T 5 Minute Expectation Training Unit is a live training unit designed for use as a classroom-training tool to simulate the CSE SR-100 Self-Contained Self-Rescuer. The SR-MP-5T accurately recreates the experience of using an SR-100 also known collectively as Self-Contained Self-Rescuer (SCSR) in an emergency. Training with the SR-MP-5T will give the user a chance to experience the sensations that are common with CSE's SR-100. The SR-MP-5T has been designed to operate for 5 minutes. During this span of time, the user will experience the breathing resistance and temperature sensations that occur towards the end of the rated duration of the SCSR. The user will also have the opportunity to practice the CSE SCSR Manual start-up procedure. This procedure is detailed in the SR-100 Manual, and may be needed if the oxygen bottle in the SCSR is prematurely deployed. All of these factors will help raise the user's knowledge and confidence should he or she ever be faced with a circumstance in which the SCSR must be donned.

ASSEMBLY

The SR-MP-5T 5 Minute Expectation Trainer consists of three components, Mouth Piece /Nose Clip Assembly, Mouthpiece Clamp, SR-MP-5T Canister Assembly.

1. Remove Canister from the plastic storage bag.
2. Remove the caps from the top and bottom of the Canister.
3. Visually inspect the Top and Bottom filters to verify that the filters are intact and that no chemical has migrated past the filters due to possible trauma during shipment. **Do not use if chemical bed is exposed.**
4. Firmly but gently, slide the Mouthpiece Assembly over the neck of the Canister; be sure that the Mouthpiece Assembly is fully seated on the Canister.
5. Place the Mouthpiece Clamp around the base of the Mouthpiece Assembly and secure.
6. The SR-MP-5T 5 Minute Expectation Trainer is ready for use in accordance with the above warnings. **Use only in an instructional setting and in ambient air.**



DONNING

Follow the MSHA/NIOSH specified 3+3 Donning Procedures.

Start in a kneeling position, simulate removing the SR-100 from its pouch, removing hardhat and place both on ground in front of you, loop Neck Strap Assembly of SR-MP-5T around neck.

1. Activate Oxygen – simulate activation of oxygen.
2. Insert Mouthpiece – Simulate normal operation as oxygen has deployed, first remove Mouthpiece Plug from Mouthpiece then inhale and hold breath, insert Mouthpiece into mouth and exhale into the unit. Simulate Manual operation as oxygen has not deployed, remove the mouthpiece and repeat this process two more times to simulate filling of Breathing Bag Assembly.
3. Apply Nose Clip to Nose.
4. Place Goggle Assembly over eyes - Simulate.
5. Adjust Straps - Simulate.
6. Replace Hardhat - Simulate and move out, Stop and remove SR-MP-5T from mouth after 5 minutes.

CLEANING

Required Material

- ✓ 2 buckets
- ✓ Warm water
- ✓ Thermometer
- ✓ Metric graduated cylinder for measuring small quantities
- ✓ Quaternary ammonia disinfectant OR hypochlorite (household bleach) OR iodine solution OR other commercially available cleansers of disinfectant quality that are recommended by the respirator manufacturer
- ✓ Table or work surface

Procedures

1. Prepare 2 buckets (2 gal/7.5L) of fresh warm water; follow sequence of use as described below.
2. Do not use boiling or hot water. Water Temperature should be less than 110 F.
3. Bucket 1. Remove the mouthpiece from the canister to disinfect mouthpiece by immersing in a disinfectant water solution. **Do not immerse the canister, dispose of properly.** A quaternary ammonia disinfectant (one packet per 2 gallons or per manufacturer's recommendation), or a hypochlorite (1 oz [30milliliters] household bleach in 2 gal [7.5 L] water) solution, or an aqueous solution of iodine (50ppm of iodine, made by adding 0.8 milliliters of tincture of iodine to one liter of water at 110 F) can be used.
4. Bucket 2. Rinse in fresh, warm water. Thorough rinsing is important to keep detergents or disinfectants from drying on the mouthpiece.
5. Replace sanitizing solution and rinse water after approximately 20 mouthpieces have been sanitized, or as needed.
6. Allow the mouthpiece to air dry in a non-contaminated environment. Do not dry with heaters or in sunlight

ACCIDENTAL SPILLAGE

While users are shielded from the Calcium Hydroxide by the design of the training units, accidents do happen. Should a training unit be damaged such that the Calcium Hydroxide is exposed please follow the following guidelines:

- Avoid contact with the skin and avoid touching your eyes or mouth.
- Contact your safety director to initiate a safe cleanup.
- Do not clean up a spill with acid or acid solutions. Significant amounts of Calcium Hydroxide can react violently with acid or acid solutions.
- Sweep (wear dust filter and goggles) up material using a broom with plastic bristles and a plastic or steel pan. Rinse the broom and the pan with excessive water when done.
- Seal the spilled chemical and/or damaged devices (or used devices) in plastic bags or glass containers to prevent the further reaction of the Calcium Hydroxide with the carbon dioxide in the air and surrounding environment. Sturdy, zipper-type and transparent bags are preferred such that the contents and the state of the contents can be easily observed.
- Do not store damaged/compromised units near:
 - Acid
 - Acid Solutions
 - Combustible materials

FIRST AID

If you come in direct contact with the chemical compound, summon emergency medical assistance and

- Eyes: Flush repeatedly with water for 15 minutes while holding eyelids open. Seek emergency medical attention immediately. Danger of corneal clouding.
- Skin: Remove affected clothing/shoes. Brush chemical off skin with towel. Small amounts of Calcium Hydroxide can be safely flushed away with large amounts of water, then treat with polyethylene glycol.
- Ingestion: Administer lemon juice then plenty of water. Do not induce vomiting (Danger of perforation). Call a poison control center immediately.
- Inhalation: Exit immediately to fresh air. Deploy oxygen supplement until emergency medical personnel arrive and direct other action.

FIREFIGHTING MEASURES

- Calcium Hydroxide is non-flammable. Adapt extinguishing to the environment. When using water as an extinguishing media, take care of the resulting alkaline fire-fighting water. Block potential routes to water systems. In case of high temperatures, Calciumoxid (CaO) may be released. Do not use Carbon Dioxide (CO₂) extinguishing media as exothermic reaction will result.

DISPOSAL

It is a violation of both safety and environmental regulations to pour chemicals down the drain unless they are first treated or neutralized according to federal regulations, state, and local regulations. Applicable state waste codes, codes that apply to conditions of the products use or specific Hazardous Waste Handler codes should be identified in accordance with federal, state, and local regulations

The resulting chemical reaction of Calcium Hydroxide and Carbon Dioxide is Calcium Carbonate. In general, only Calcium Carbonate a non-hazardous material may be placed into the ordinary refuse (garbage) for disposal. The user is responsible for compliance with Federal, State, and Local disposal regulations

Contact CSE Corporation (412)-856-9200, CSE Distributor or Licensed Hazardous Material Handler for disposal of SR-MP-5T. Disposal fees will apply.