

**ESSENTIAL SUBJECT  
PERFORMANCE ORIENTED TRAINING**

**STUDENT ADVANCE SHEET**

<b>WHAT TO DO</b>
<b>UNDER KNOWN OR SUSPECTED CHEMICAL OR BIOLOGICAL ATTACK ---</b>
1. STOP BREATHING.
2. MASK.
3. GIVE ALARM.
4. CONTINUE YOUR MISSION.
5. REMAIN MASKED UNTIL ORDERED TO UNMASK.
IF...
the situation permits-- TAKE OVERHEAD COVER.
your eyes or skin is contaminated-- DECONTAMINATE.
you have symptoms of nerve agent poisoning-- TAKE ATROPINE.
your clothing and equipment are contaminated-- DECONTAMINATE WHEN THE MISSION PERMITS.

**PROTECTIVE MEASURES  
AGAINST CHEMICAL AND  
BIOLOGICAL ATTACK**



**JULY 1976**

NBC STUDENT ADVANCE SHEET

TRAINING STATION #2: PROTECTIVE MEASURES AGAINST CHEMICAL AND BIOLOGICAL ATTACK

OBJECTIVES: AT THE COMMAND "SPRAY" OR UPON BEING TOLD THAT AN AIRCRAFT IS SPRAYING A CLOUD, PROPERLY MASK (SOUND THE ALARM IF NO ONE HAS DONE SO), KNEEL, CROUCH OR SIT, AND COVER THE BODY WITH A PONCHO WITHIN 20 SECONDS.

UPON BEING DIRECTED TO MOVE THROUGH A CONTAMINATED AREA, DON AVAILABLE PROTECTIVE EQUIPMENT (AT A MINIMUM, MASK AND PONCHO) AND MOVE THROUGH THE AREA AVOIDING LOW PLACES AND UNNECESSARY CONTACT WITH CONTAMINATED SURFACES.

INSTRUCTIONS: THE ADVANCE SHEET FOR THIS TRAINING STATION CONTAINS THE KEY TEACHING POINTS FOR THE INSTRUCTION WHICH YOU WILL RECEIVE. YOU SHOULD READ THROUGH THIS SHEET CAREFULLY TO PREPARE YOURSELF FOR INSTRUCTION IN AND PERFORMANCE TESTING OF THE OBJECTIVES LISTED ABOVE. YOU SHOULD BRING THIS ADVANCE SHEET TO CLASS WITH YOU. THE ADVANCE SHEET FOR THIS TRAINING STATION HAS BEEN BROKEN DOWN INTO THE FOLLOWING PARTS:

PART I: FOUR TYPES OF CHEMICAL AGENTS

PART II: BIOLOGICAL/CHEMICAL ATTACK - WARNING SIGNALS

PART III: PROTECTIVE MEASURES AGAINST AIRCRAFT SPRAY

PART IV: PROTECTIVE MEASURES - MOVING THROUGH A CONTAMINATED AREA

PART I: FOUR TYPES OF CHEMICAL AGENTS

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FOUR TYPES OF CHEMICAL AGENTS

A. NERVE AGENTS

1. DISSEMINATED IN EITHER VAPOR OR LIQUID DROPLET FORM.
2. FIRST EFFECTS: UNEXPLAINED RUNNY NOSE, TIGHTNESS IN CHEST, PINPOINTING OF THE EYE PUPILS.
3. LATER EFFECTS: FURTHER DIFFICULTY IN BREATHING, DIZZINESS, HEADACHE, DROOLING, EXCESSIVE SWEATING, STOMACH CRAMPS, INVOLUNTARY URINATION AND DEFECATION.
4. INTERFERE WITH BREATHING.
5. CAUSE CONVULSIONS, PARALYSIS, AND DEATH.

B. BLISTER AGENTS

1. DISSEMINATED IN EITHER VAPOR OR LIQUID FORM.
2. ON THE SKIN THEY CAUSE BURNS, ESPECIALLY ON MOIST AREAS OF THE BODY.
3. WHEN CONSUMED, THEY CAN DAMAGE THE DIGESTIVE TRACT.
4. IF INHALED, THEY CAN SERIOUSLY DAMAGE THE LUNGS.

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C. BLOOD AGENTS

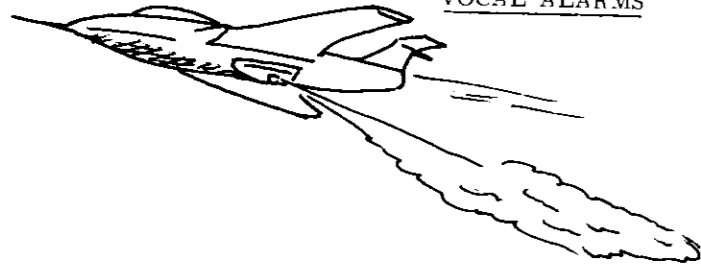
1. DISSEMINATED IN VAPOR FORM.
2. THEY MUST BE INHALED TO DO DAMAGE.
3. THEY PREVENT THE BLOOD FROM TRANSFERRING OXYGEN TO BODY TISSUE CAUSING SUFFOCATION AND DEATH.
4. SMALL AMOUNTS CAUSE EYE AND NOSE IRRITATION, HEADACHE, AND DIZZINESS.

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D. CHOKING AGENTS

1. DISSEMINATED IN VAPOR FORM.
2. CAUSE CASUALTIES BY INHALATION.
3. DAMAGE THE LUNGS CAUSING THEM TO FILL WITH FLUID.
4. PREVENT OXYGEN FROM REACHING THE BODY AND DEATH MAY RESULT.

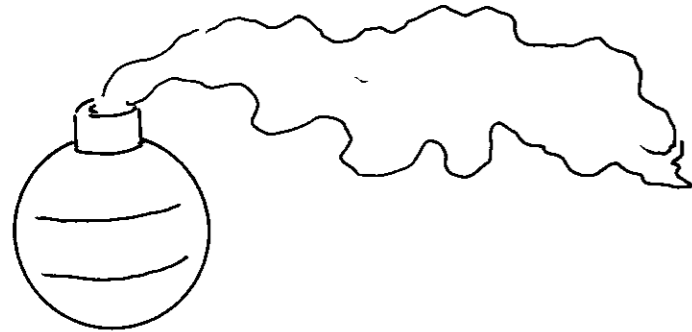
VOCAL ALARMS



- A. IF YOU ARE UNDER AN AGENT ATTACK BY AIRCRAFT, THE WARNING IS:

**"SPRAY"**

GIVE THIS WARNING ONLY AFTER YOU HAVE MASKED!



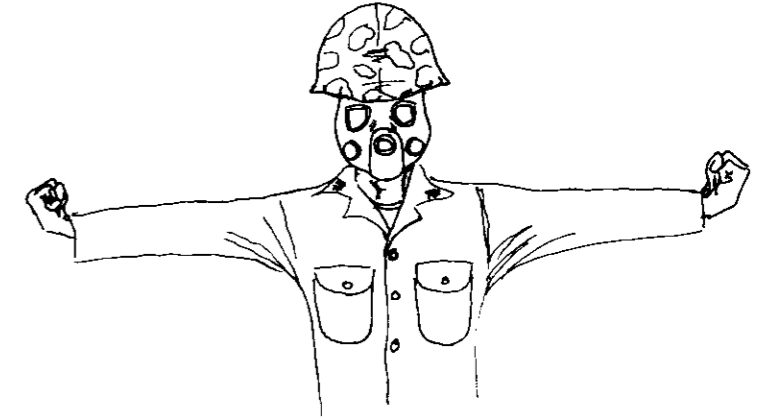
- B. FOR ALL OTHER AGENT ATTACKS THE WARNING IS:

**"GAS"**

GIVE THIS WARNING ONLY AFTER YOU HAVE MASKED!

VISUAL SIGNALS

- A. PUT ON YOUR MASK.  
EXTEND BOTH ARMS HORIZONTALLY SIDEWAYS WITH YOUR FISTS DOUBLED AND FACING UP.



- B. WAVE YOUR ARMS IN AND TOWARD YOUR HEAD AND BACK TO THE HORIZONTAL POSITION.



Repeat as necessary.

PART III: PROTECTIVE MEASURES AGAINST AIRCRAFT SPRAY

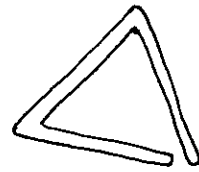
NOTE: FIGURES A THROUGH F MUST BE PERFORMED WITHIN 20 SECONDS.

SOUND SIGNALS

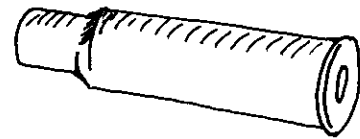
A. A RAPID AND CONTINUOUS BEATING ON ANY OBJECT THAT PRODUCES A LOUD NOISE SUCH AS:



BELLS



METAL TRIANGLES



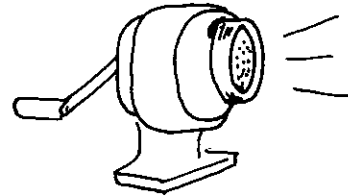
EMPTY SHELL CASES

B. A HORN



OR

SIREN SIGNAL



THREE SHORT BLASTS OF A HORN OR THREE LONG WARBLING SOUNDS OF A SIREN FOLLOWED BY 2 SECONDS OF SILENCE.

REPEAT THIS SIGNAL FOR 1 MINUTE.

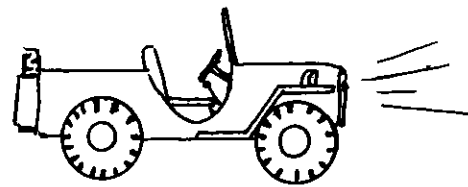
ALL CLEAR

A. USUALLY GIVEN ORALLY

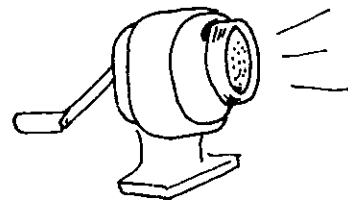


**"ALL CLEAR"**

B. MAY BE A CONTINUOUS SUSTAINED 1 MINUTE BLAST ON A



VEHICLE HORN



SIREN,

OR SIMILAR INSTRUMENT.

A. DON, SEAT, CLEAR, AND CHECK THE MASK



B. SOUND THE ALARM.

**"SPRAY"**

C. KNEEL, CROUCH OR SIT ON THE GROUND.



D. PLACE YOUR WEAPON ACROSS YOUR LAP.

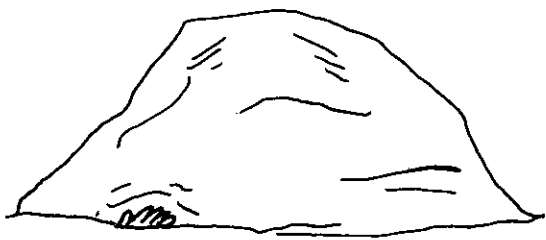


PART IV: PROTECTIVE MEASURES - MOVING THROUGH A CONTAMINATED AREA

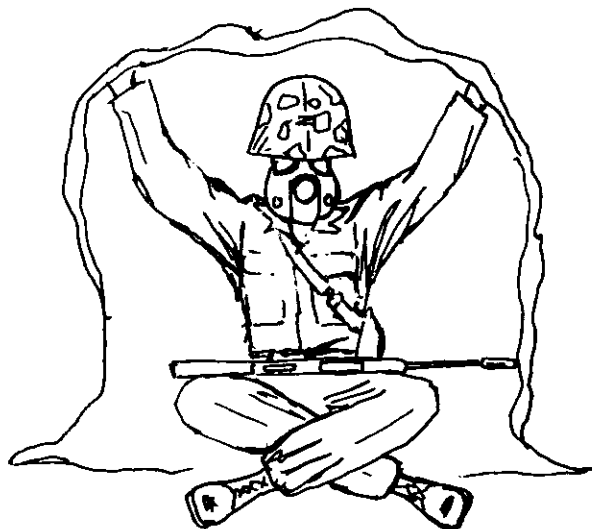
E. OPEN YOUR PONCHO AND COVER YOURSELF AND YOUR EQUIPMENT.



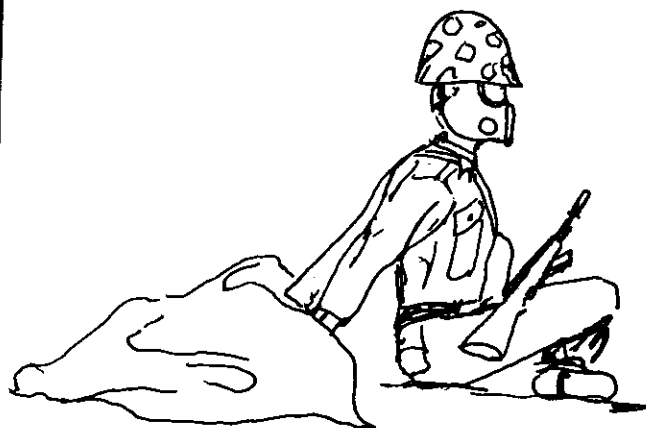
F. CHECK TO INSURE THAT THE PONCHO IS FULLY DRAPED AROUND YOU.



G. SLOWLY REMOVE THE PONCHO. AVOID TOUCHING THE OUTSIDE CONTAMINATED AREA.



H. CAREFULLY PUSH THE PONCHO TO THE REAR OF YOU BY TOUCHING ONLY THE INSIDE UNCONTAMINATED PART.



WHEN THE ORDER IS GIVEN, REMOVE YOUR MASK. REPLACE THE MASK IN ITS CARRIER ON COMMAND.

DO	DON'T
1. WEAR FIELD PROTECTIVE MASK.	1. WALK IN LOW PLACES SUCH AS VALLEYS, GULLIES, CELLARS, AND TRENCHES.
2. WEAR PONCHO.	2. WALK IN AREAS OF HIGH GRASS OR DENSE FOLIAGE.
3. OBSERVE NATO NBC MARKERS.	3. KICK UP DUST.
4. OBSERVE VEGETATION.	4. TOUCH ANY CONTAMINATED SURFACES.
5. OBSERVE ANIMAL LIFE.	5. WALK THROUGH PUDDLES OF WATER.