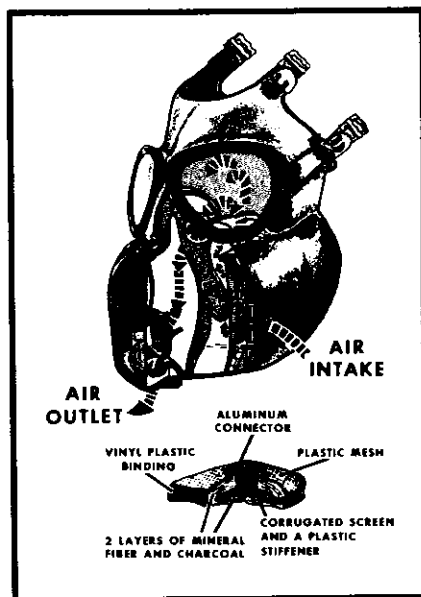


**ESSENTIAL SUBJECT**  
**PERFORMANCE ORIENTED TRAINING**  
**STUDENT ADVANCE SHEET**



**MITAI FIELD**  
**PROTECTIVE MASK**



**JULY 1976**

NBC STUDENT ADVANCE SHEET

TRAINING STATION #1: M17A1 FIELD PROTECTIVE MASK

OBJECTIVE: WHEN AN ALARM IS GIVEN, OR UPON IDENTIFYING A CHEMICAL OR BIOLOGICAL HAZARD FROM OBSERVATION OF A STANDARD NATO MARKER OR SIGN, OR FROM OBSERVATION OF APPEARANCE OR EFFECTS, REMOVE THE FIELD PROTECTIVE MASK FROM ITS CARRIER, DON, SEAT, CLEAR, AND CHECK THE MASK (SOUND THE ALARM IF NO ONE HAS DONE SO) WITHIN 9 SECONDS.

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 OBJECTIVE 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: WHEN TO MASK

PART II: STANDARD NATO MARKERS

PART III: THE FOUR BASIC CARRYING POSITIONS

PART IV: INSPECTING MASK

PART V: FITTING MASK

PART VI: REMOVING THE MASK

PART VII: DONNING THE MASK

PART I: WHEN TO MASK

---

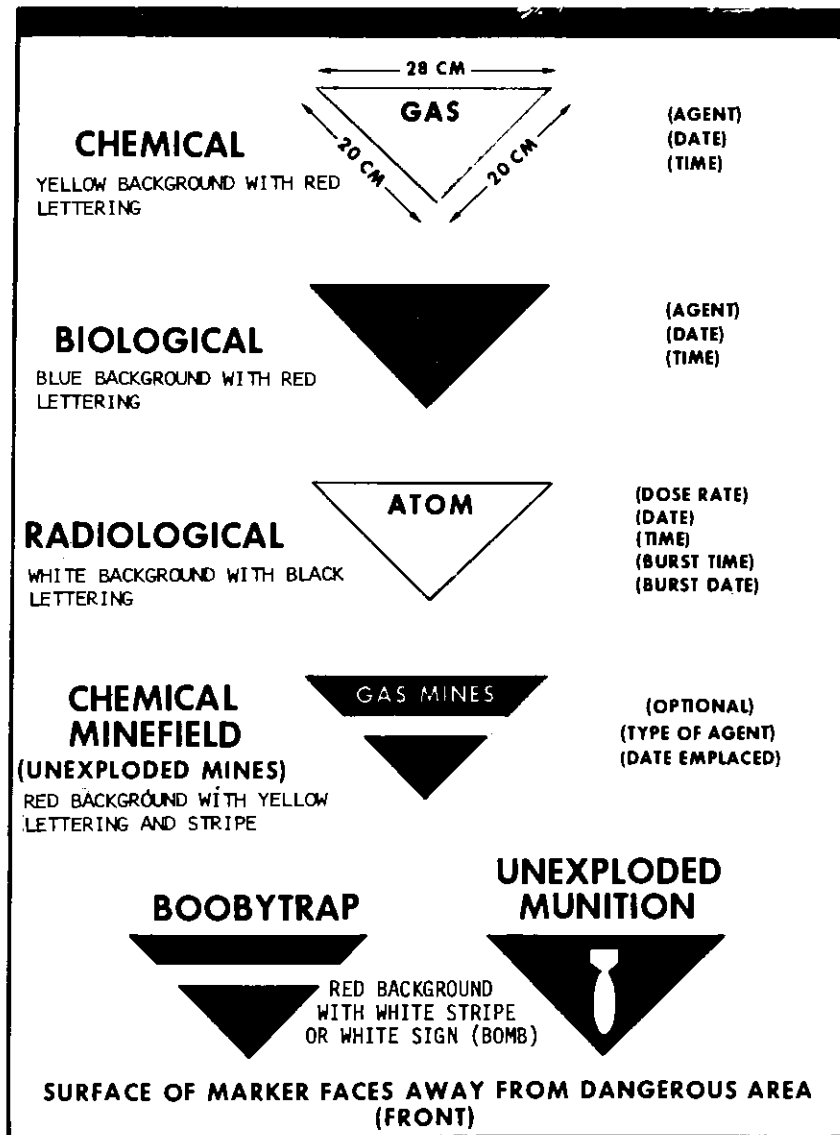
## WHEN TO MASK

**Once chemical or biological agents have been used, are suspected of having been used, or information is available that they are about to be used,**

### **MASK WITHOUT ORDER OR ALARM WHEN----**

- 1. YOUR POSITION IS HIT BY:**
  - artillery or mortar fire.**
  - missiles or rockets.**
  - smoke or mists.**
  - aerial spray or bombs.**
- 2. SMOKE FROM AN UNKNOWN SOURCE IS PRESENT.**
- 3. A SUSPICIOUS ODOR, LIQUID, OR SOLID IS PRESENT.**
- 4. YOU ARE ENTERING AN AREA SUSPECTED OF BEING CONTAMINATED.**
- 5. YOU HAVE ONE OR MORE OF THE FOLLOWING SYMPTOMS:**
  - an unexplained runny nose.**
  - a feeling of choking or tightness in the chest or throat.**
  - dimming of vision.**
  - irritation of the eyes.**
  - difficulty in or increased rate of breathing.**

MARKERS FOR CONTAMINATED OR DANGEROUS LAND AREAS



SIDE CARRY POSITION

A. HOLD THE CARRIER WAIST HIGH IN THE LEFT HAND BY THE SHORT STRAP WITH D-RING AND WITH THE CARRIER FLAP FACING TO THE FRONT.

B. WITH YOUR RIGHT HAND, GRASP THE SHOULDER STRAP NEAR THE SNAP AND PASS THE SHOULDER STRAP OUTSIDE THE LEFT ELBOW TO YOUR BACK.

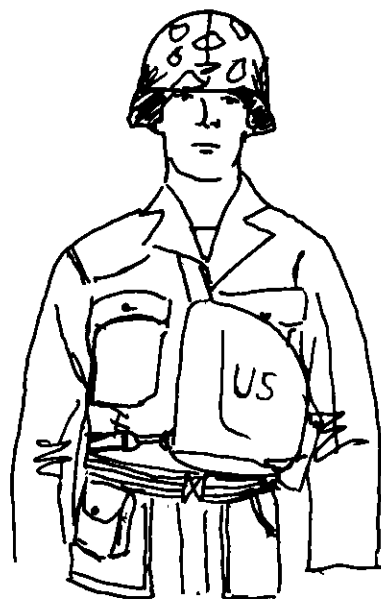


C. BRING THE SHOULDER STRAP OVER YOUR RIGHT SHOULDER AND FASTEN THE SNAP TO THE D-RING. ADJUST THE STRAP SO THAT THE DISTANCE BETWEEN THE ARMPIT AND THE TOP EDGE OF THE CARRIER IS THE WIDTH OF YOUR HAND.



FRONT CARRY

ROTATE THE CARRIER FROM THE SIDE CARRY POSITION SO THAT THE CARRIER FLAP IS LOCATED IN THE MIDDLE OF YOUR BODY.

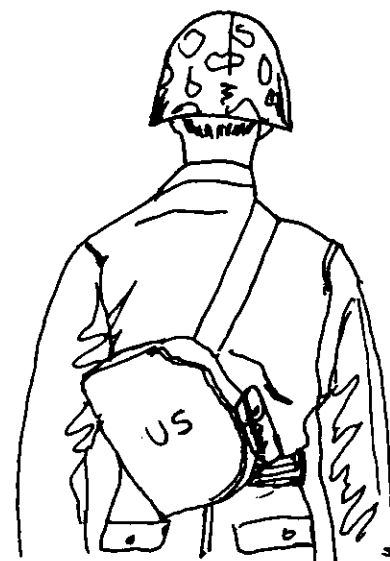


D. PLACE THE CARRIER SECURELY AGAINST YOUR BODY AND FASTEN THE BODY STRAP AROUND YOUR WAIST SO THAT IT FITS SNUGLY.



BACK CARRY

ROTATE THE CARRIER FROM THE SIDE CARRY POSITION SO THAT THE CARRIER IS LOCATED AT YOUR BACK.



LEG CARRY

A. WITH YOUR LEFT HAND, HOLD THE CARRIER WAIST HIGH BY THE SHORT STRAP WITH D-RING WITH CARRIER FLAP FACING TO THE FRONT.



C. BRING THE SHOULDER STRAP AROUND YOUR WAIST AND FASTEN IT WITH THE SNAP TO THE D-RING.



B. SWING THE CARRIER TO THE LEFT SIDE AND SLIGHTLY TO THE REAR. WITH YOUR RIGHT HAND, REACH BEHIND YOUR BACK AND GRASP THE SHOULDER STRAP.



D. ADJUST THE BODY STRAP AROUND YOUR LEFT LEG AND THREAD THE SNAP THROUGH THE D-RING.

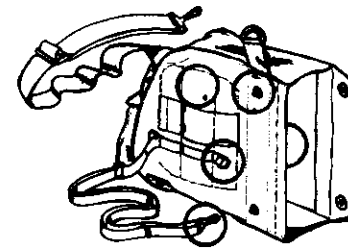
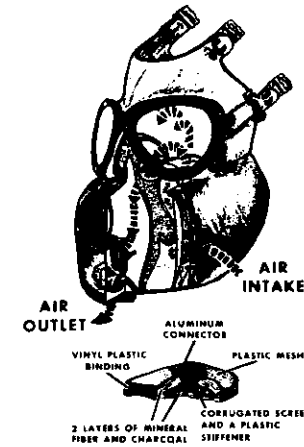


E. RETURN THE BODY STRAP TO THE REAR OF YOUR LEG AND FASTEN THE SNAP TO THE D-RING AT THE REAR OF THE CARRIER.



PART IV: INSPECTING THE MASK

THE M17A1 FIELD PROTECTIVE MASK AND CARRIER



A. INSPECTING THE CARRIER

1. REMOVE MASK FROM CARRIER.

2. CHECK FOR:

- a. MILDEW
- b. STAIN
- c. HOLES OR TEARS
- d. BROKEN OR TORN STRAPS
- e. BENT OR MISSING D-RINGS
- f. BROKEN HOOK SNAPS
- g. BROKEN SNAP FASTENERS
- h. FRAYS IN STITCHING
- i. TORN OR MISSING BELT CARRY STRAP.

3. POINTS WHERE DEFICIENCIES ARE MOST LIKELY TO OCCUR ARE CIRCLED IN THE FIGURE.

4. MASK ACCESSORIES WHICH ARE AUTHORIZED TO BE STORED IN THE CARRIER MUST BE IN THE CORRECT POSITION.

B. INSPECTING THE FILTER ELEMENT ASSEMBLY

1. CHECK FOR:

- a. DAMAGED FILTER ELEMENTS
- b. INCORRECT POSITION IN CHEEK POUCHES
- c. NOSECUP FLAP IMPROPERLY LOCATED BEHIND CHIN STRAP
- d. FLAPS INCORRECTLY BUTTONED
- e. WATER DAMAGE.

2. WATER DESTROYS THE EFFICIENCY OF FILTER ELEMENTS.

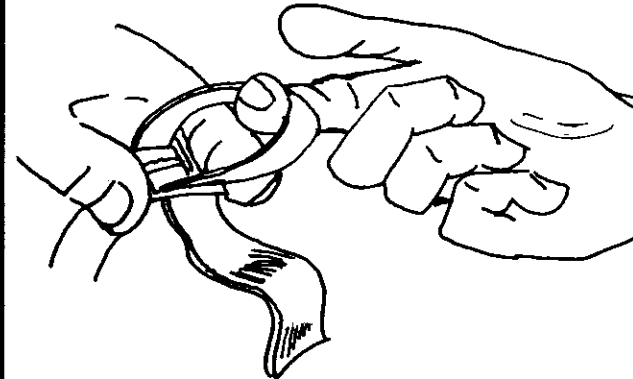
C. INSPECTING THE FACEPIECE

1. CHECK THE FACEPIECE FOR:
    - a. HOLES, TEARS, OR SPLITS
    - b. TACKINESS, HARDNESS, OR BRITTLINESS
    - c. DIRT OR MOLD
    - d. FINE CRACKS (DRY ROT)
    - e. PERMANENT SET WHICH MIGHT AFFECT THE FIT
    - f. DIRT INSIDE THE MASK TO INSURE THAT THE FACEPIECE IS FREE OF FOREIGN PARTICLES (PARTICLES MAY FALL INTO THE OUTLET VALVE AND INTERFERE WITH ITS FUNCTIONING).
  2. CHECK THE EYERINGS FOR:
    - a. CORROSION OR DAMAGE
    - b. HOLES IN THE RUBBER AROUND THE EYERINGS AND THAT EACH EYERING IS PROPERLY CRIMPED AROUND THE EYELENS. (DO THIS BY STRETCHING THE RUBBER AROUND THE EYERING).
  3. CHECK THE EYELENS FOR:
    - a. CRACKS
    - b. CHIPS
    - c. SCRATCHES
    - d. DISCOLORATION
    - e. DISTORTION
    - f. WARPING AROUND EYERING EDGES.
  4. CHECK FOR DIRTY, BLOCKED OR CONSTRICTED DEFLECTOR TUBES.
  5. CHECK THE NOSECUP:
    - a. FOR DIRT
    - b. FOR BEING SECURELY MOUNTED TO THE FACEPIECE
    - c. FOR BEING IN THE UPRIGHT POSITION
    - d. TO INSURE THAT BOTH NOSECUP VALVES ARE PRESENT, CLEAN, NOT DAMAGED, AND FUNCTIONING PROPERLY.
  6. CHECK THE CLIP AND BUCKLE ASSEMBLIES FOR:
    - a. INSECURE ATTACHMENTS
    - b. CORRODED METAL PARTS
    - c. INOPERATIVE SLIDE FASTENERS
    - d. RIVET DAMAGE.
  7. CHECK THE VOICEMITTER-OUTLET VALVE COVER FOR:
    - a. CRACKS
    - b. TEARS
    - c. BREAKS
    - d. STIFFNESS
    - e. DISTORTION.
  8. CHECK THE OUTLET VALVE FOR:
    - a. FOREIGN MATTER
    - b. IMPROPER SEATING OF VALVE DISK.
  9. CHECK THE CHEEK POUCHES FOR:
    - a. DIRT
    - b. FOREIGN MATTER
    - c. PRESENCE OF BOTH BUTTON FLAPS.
  10. CHECK THE INLET VALVE ASSEMBLIES FOR:
    - a. BROKEN OR DAMAGED CAP
    - b. FLOCKED SURFACE OF CAP DIRTY OR CLOGGED
    - c. DAMAGED INLET VALVE SEAT
    - d. VALVE DISKS NOT IN PLACE ON STUDS
    - e. DAMAGED INLET VALVE DISKS.
  11. CHECK THE FACEBLANK FOR LOSS OF TEMPLE PINS.
  12. CHECK THE DRINKING AND RESUSCITATION DEVICES FOR COMPLETENESS AND PROPER FUNCTIONING.
- D. INSPECTING THE HEAD HARNESS ASSEMBLY
1. MAKE CERTAIN THAT THE HEAD HARNESS ASSEMBLY IS FREE FROM ANY DEFECTS WHICH WOULD MAKE CORRECT ADJUSTMENT IMPOSSIBLE.
  2. CHECK FOR:
    - a. TORN OR FRAYED STRAPS
    - b. LOSS OF ELASTICITY OF STRAPS
    - c. MILDEWED WEBBING (CLINCH TIPS SHOULD BE TIGHT).
  3. CHECK THE FUNCTIONING OF THE HEAD HARNESS ASSEMBLY
    - a. PUT ON THE MASK
    - b. ADJUST EACH STRAP BY PULLING ON THE LOOSE END TO SEE IF THE STRAP CAN BE TIGHTENED EASILY.
    - c. IF ALL THE STRAPS CANNOT BE ADJUSTED IN THIS MANNER, THE HEAD HARNESS SHOULD BE REPLACED.

AS1-8

PART V: FITTING MASK

- A. LOOSEN THE HEAD HARNESS STRAPS SUFFICIENTLY TO ALLOW EASY POSITIONING OF THE MASK ON THE FACE.



- B. HOLD THE MASK BY THE VOICEMITTER-OUTLET VALVE, ASSEMBLY FIRMLY AGAINST THE CHIN WITH ONE HAND, AND CENTER THE HEAD HARNESS PAD ON THE BACK OF THE HEAD WITH THE OTHER HAND.



- C. HOLD THE HEAD HARNESS PAD FIRMLY AGAINST THE HEAD WITH ONE HAND. REMOVE THE HAND FROM THE VOICEMITTER-OUTLET VALVE ASSEMBLY AND ALTERNATELY TIGHTEN THE TWO TOP STRAPS (FOREHEAD STRAPS) JUST ENOUGH TO REMOVE ANY SLACK. (STRAPS ARE BEST ADJUSTED BY A QUICK JERK OR PULL RATHER THAN BY A STEADY PULL.) SIMILARLY, TIGHTEN THE TWO BOTTOM STRAPS (CHECK STRAPS) TO OBTAIN A COMFORTABLE FIT.



- D. REMOVE YOUR HAND FROM THE HEAD HARNESS PAD. USING BOTH HANDS, TIGHTEN THE MIDDLE STRAPS (TEMPLE STRAPS) SIMULTANEOUSLY TO MODERATE AND EQUAL TIGHTNESS. (BUCKLES SHOULD BE FLAT AND THE STRAPS SHOULD CLEAR YOUR EARS AND FIT COMFORTABLY.)



CAUTION: DO NOT REMOVE YOUR HAND FROM THE HEAD HARNESS PAD WHILE ADJUSTING FOREHEAD AND CHECKING STRAPS.

AS1-9

E. MAKE SURE THAT THE FACEPIECE FITS SMOOTHLY AROUND YOUR FACE. TO CHECK FOR AN AIRTIGHT FIT:

1. SHUT OFF THE AIR INLET ON EACH SIDE OF THE FACEPIECE WITH THE PALMS OF YOUR HANDS.
2. INHALE NORMALLY.
3. HOLD YOUR BREATH FOR 10 SECONDS.

(YOUR FACEPIECE SHOULD COLLAPSE AND REMAIN COLLAPSED DURING THIS TIME. IF IT DOES NOT, THEN ADDITIONAL ADJUSTMENT IS NEEDED.)



F. IF AIR LEAKAGE PERSISTS AFTER ADJUSTING CAREFULLY, THE MASK DOES NOT FIT AND SHOULD BE REPAIRED OR REPLACED. A LARGER OR SMALLER SIZE SHOULD BE TRIED. IF THE MASK IS TOO LARGE, THE EYES WILL BE BELOW THE CENTER OF THE EYEPIECE; IF THE MASK IS TOO SMALL, THE EYES WILL BE ABOVE THE CENTER OF THE EYEPIECE.

PART VI: REMOVING THE MASK

AT THE COMMAND  
**"REMOVE MASK"**

Remove headgear with left hand. With right hand grasp facepiece by voicemitter-outlet valve assembly and remove facepiece with circular motion (downward, outward, upward).



A

Replace headgear. With left hand fold head harness into facepiece; then open carrier. Holding carrier open with left hand and holding facepiece below eyepieces, start mask toward carrier with chin pocket first and eyepieces facing downward.



B

AT THE COMMAND  
**"REPLACE MASK"**

Insert mask into carrier, tilting mask upward so that facepiece is facing out.



C

Close carrier flap.



D

AT THE COMMAND "GAS"  
STOP BREATHING

Remove headgear with right hand;  
open carrier with left hand.  
Place headgear as directed.



A

Hold carrier open with left hand;  
grasp facepiece just below eyepieces  
and remove mask with right hand.



B

Grasp facepiece with both hands,  
sliding thumbs up inside facepiece  
under lower head harness straps  
Lift chin slightly.



C

Seat chin pocket of facepiece firmly  
on chin. Bring head harness smoothly  
over head, insuring that head harness  
straps are straight and head pad is  
centered.



D

Smooth edges of facepiece on face  
with upward and backward motion  
of hands, pressing out all bulges to  
secure airtight seal.



E

Close outlet valve by cupping heel  
of right hand firmly over opening;  
blow hard to clear agent from  
facepiece.



F

Block air inlet valve assemblies,  
shutting off air supply. Inhale.  
The facepiece will collapse if  
there are no leaks.



G

RESUME  
BREATHING

Replace headgear.  
Fasten carrier flap.



H