

**LESSON PLAN**

**PART I**  
**COVER SHEET**

**LESSON TITLE:** NBC Contamination Marking Set

**TRAINING METHOD:** Demonstration-Performance

**REFERENCES:** TM 3-9905-001-10, Operator's Manual for Marking Set, Contamination:  
Nuclear, Biological, Chemical (NBC)  
AFMAN 32-4005, Personnel Protection and Attack Actions

**AIDS AND HANDOUTS:** NBC Contamination Marking Set  
Attachment 1. Attaching a Marking Flag to an Object  
Attachment 2. Marking a Large Area  
PIN 606053DF (I Block) - NBC Marking Set

**LESSON OBJECTIVE:** Given an explanation and demonstration on the NBC Contamination Marking Set, the student, during the final course exam, must correctly answer questions that demonstrate mastery of all of the task steps and samples of behavior listed below:

**TASK STEPS:**

1. Don the NBC Contamination Marking Set.
2. Mark an object or area using the NBC Contamination Marking Set.

**SAMPLES OF BEHAVIOR:**

1. State the color of marking flag used for nuclear, biological, or chemical contamination.

**ORGANIZATIONAL PATTERN:** Topical

**SUGGESTED COURSE(S) OF INSTRUCTION:** Disaster Preparedness Support Team  
Contamination Control Team

**STRATEGY:** The NBC Contamination Marking Set is an easy piece of equipment to use. Ensure the student knows the difference between the three types of marking flags in the set. Have the student demonstrate proficiency with the set by actually marking an object or small area. Additionally, explain to the students that the crayon supplied with the marking set should be replaced with a wax pencil. In this RTP the term “MARKER” is used to represent the wax pencil they will use to mark on the appropriate flag. Contamination control teams should follow their standard operating procedures along with the NBC Contamination Marking Set to accomplish their assigned mission.

**LESSON OUTLINE:**

- MAIN POINT 1.       PURPOSE AND COMPOSITION
  - A. Carrying Container
  - B. Flag Container
  - C. Ribbon Container
  - D. Mounting Stakes
  - E. Marker
  
- MAIN POINT 2.       WEARING THE NBC CONTAMINATION MARKING SET
  - A. Front Wear
  - B. Back Wear
  
- MAIN POINT 3.       ATTACHING MARKING FLAGS TO SINGLE OBJECTS
  
- MAIN POINT 4.       USING THE NBC CONTAMINATION MARKING SET
  
- MAIN POINT 5.       MARKING LARGE AREAS

**PART II**  
**TEACHING PLAN**  
**INTRODUCTION**

**ATTENTION:**

How can we mark an area contaminated with chemical agents?

**MOTIVATION:**

By using the Nuclear, Biological, Chemical (NBC) Contamination Marking Set, we can inform people to stay out of a contaminated areas.

**OVERVIEW:**

This lesson will cover:

⇒ purpose and composition of the NBC Contamination Marking Set.

⇒ wearing the NBC Contamination Marking Set.

⇒ attaching marking flags to single objects.

⇒ procedures for using the NBC Contamination Marking Set.

⇒ marking large areas.

**TRANSITION:**

We'll begin this lesson by covering the purpose and composition of the NBC Contamination Marking Set.

**BODY****MAIN POINT 1.  
PURPOSE AND  
COMPOSITION****A. CARRYING  
CONTAINER****B. FLAG CONTAINER****C. RIBBON  
CONTAINER**

The purpose of the NBC Contamination Marking Set is to mark areas or objects that are suspected or confirmed contaminated with NBC agents. The set consists of the following components:

A. The carrying container holds all individual parts of the marking set.

B. There are three flag containers. Each container holds 20 marking flags of three distinct colors.

⇒ White flags for marking nuclear contamination.

⇒ Blue flags for marking biological contamination.

⇒ Yellow flags for marking chemical contamination.

C. A ribbon container holds 13 rolls of yellow marking ribbon. Each roll is 66 feet long. The ribbon is used to rope off contaminated areas and to hang flags between poles or other objects.

D. MOUNTING  
STAKES

D. There are 48 marking stakes stored in the bottom of the carrying container. Mounting stakes are used to make poles for hanging flags and attaching ribbon.

**INSTRUCTOR'S NOTE:** Emphasize to students that the crayon supplied with the set may not be visible when used as indicated. Therefore, use a wax pencil for this purpose. Also, store the wax pencil in the stake case at the bottom of the container.

E. MARKER

E. Use the marker to mark information on the flags.

MAIN POINT 2.  
WEARING THE  
NBC  
CONTAMINATION  
MARKING SET

The NBC Contamination Marking Set is designed to be worn by the user. Before wearing the set, you should adjust the carrying straps so that it is comfortable for you. Generally, it is best to wear the set on the front when working alone or on the back when working in teams.

A. FRONT WEAR

A. To wear the set in the front wear configuration, you must:

(1) Loop the top carrying strap over your shoulders ensuring the ribbon container is at the bottom.

(2) Unhook the bottom carrying strap and loop it around your waist.

## B. BACK WEAR

(3) Re-hook the bottom strap to the carrying container.

(4) Adjust the straps so the kit is snug.

B. To wear the NBC Contamination Marking Set in the back wear configuration, you must:

(1) Place the set on your back.

(2) Put your arms through the carrying straps.

(3) Adjust the straps so the set is snug.

## TRANSITION:

Now that we know how to wear and can identify the components of the NBC Contamination Marking Set, let's continue by discussing how to mark single objects.

MAIN POINT 3.  
ATTACHING  
MARKING FLAGS  
TO SINGLE  
OBJECTS

Procedures for attaching the marking flags to single objects such as tree branches, fences, etc., are as follows:

**INSTRUCTOR'S NOTE:** Emphasize to the students that flags may hang up inside the container. To free the flags, pry apart the flag slot with the point of a stake and pull the flag out slowly.

(1) Pull the appropriate colored flag from the container.

(2) Remove the marker from the stake case.

(3) Mark the following information on the flags:

⇒ On a nuclear contamination marking flag, mark the date and time of the burst, if known, the dose rate, and date and time of the reading.

⇒ On a biological or a chemical contamination marking flag, mark the type of agent, if known, and date and time of detection.

**INSTRUCTOR'S NOTE:** Use Attachment 1, in Part IV, to show how to attach a marking flag to an object.

⇒ Attach a flag to an object by putting the pointed edge of the flag through the slot and pulling. Ensure the lettering on the flag faces away from the contaminated area, so people can read the signs as they approach the area.

⇒ Crease the flag from its bottom tip to the top of the printed triangle to keep it from curling.

## TRANSITION:

Now that you know how to attach marking flags to single objects, let's continue by discussing how to mark large objects or small areas.

MAIN POINT 4.  
USING THE NBC  
CONTAMINATION  
MARKING SET

Procedures for using the NBC Contamination Marking Set are as follows:

- ⇒ Open the mounting stake access latch.
- ⇒ Remove enough stakes to make a pole. Use at least three, but not more than four stakes in a pole. Be careful when using mounting stakes. Stakes could damage your protective clothing.
- ⇒ Push the first stake into the ground next to the object or area to be marked.
- ⇒ You may need to pound a stake into the ground using a rock or other object. This will damage the stake but make a hole in the ground. Keep the damaged stake to make holes for the other stakes.
- ⇒ Push an undamaged stake into the hole. Attach two more stakes to the first stake. For more height, such as in brushy area, add one more stake.
- ⇒ Pull out a flag and mark it.

MAIN POINT 5.  
MARKING LARGE  
AREAS

⇒ Fold and attach the flag to the pole using the slit at the top of the flag.

⇒ Tuck the bottom tip of the flag into the slit of the mounting stake.

Procedures for marking large areas are as follows:

**INSTRUCTOR'S NOTE:** Use Attachment 2, in Part IV, to show how to mark a large area.

⇒ If available, use natural or man-made objects such as trees or fences instead of poles.

⇒ Put together a pole and push it into the ground.

⇒ Use two more stakes to support the poles with guy lines.

⇒ Repeat these steps for each pole you need to surround the contaminated area. Poles should be five to six feet apart.

⇒ Make guy lines for each pole as follows:

(1) Tie the end of one ribbon roll to one of the stakes left out for use as a guy stake. Do not tear off the ribbon.

(2) Push the first guy stake into the ground about 1/2 to two feet from the pole.

(3) Pull out enough ribbon to reach the top of the pole and slide the ribbon into the slit at the top of the pole.

(4) Loop the ribbon around the pole once, and pull out enough ribbon to reach the other guy stake on the opposite side.

(5) Cut or tear the ribbon and tie to the second stake.

(6) Push the second stake into the ground.

⇒ Connect each pole with the ribbon to line off the area.

(1) Pull out some ribbon, but don't tear it off yet. Slip the end into the slit at the top of the first pole and tie a knot.

(2) Keep pulling the ribbon out. Connect it to each pole by sliding the ribbon into the slit and making one loop around the pole.

(3) If your ribbon runs out, tie the end of the ribbon to the new roll and continue.

(4) When you reach the last pole, tear the ribbon and tie it to the pole.

⇒ Pull out a flag and mark it.

⇒ Attach the flag to the ribbon. Space the flags so they can easily be seen from any direction of approach.

⇒ Crease the flag from its bottom tip to the top of the printed triangle to keep the flag from curling.

⇒ Place an adequate number of flags around the area so that people can see them regardless of which direction they approach from.

## CONCLUSION

### SUMMARY:

In summary, we covered the following topics:

⇒ The purpose of the Marking Set is to mark areas or objects that are suspected or confirmed contaminated with NBC agents. We also covered the components.

⇒ Wearing the NBC Contamination Marking Set; generally, it is best to wear the set on the front when working alone or on the back when working in teams.

⇒ Attaching marking flags to single objects such as tree branches, fences, etc.

⇒ Procedures for using the NBC Contamination Marking Set.

⇒ Marking large areas.

### REMOTIVATION:

Now that you understand how to use the marking set, you will be able to mark contaminated objects and areas.

### CLOSURE:

This concludes the lesson the NBC Contamination Marking Set.

### TRANSITION:

(Develop locally to transition into next topic.)

**PART III**  
**EVALUATION**  
**STUDENT PERFORMANCE STANDARDS**

1. Don the NBC Contamination Marking Set.
2. Mark an object or area using the NBC Contamination Marking Set.

**TEST ITEMS**

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1. **LESSON OBJECTIVE:** State the color of marking flag used for nuclear, biological, or chemical contamination.

**QUESTION:** (MATCHING)

Match the type of contamination to its respective colored marking flag.

**Type of contamination**

**Color of Marking Flag**

- |  |           |
|--|-----------|
| 1. ____ Nuclear contamination (ATOM)   | a. White  |
| 2. ____ Biological contamination (BIO) | b. Green  |
| 3. ____ Chemical contamination (CHEM)  | c. Yellow |
|  | d. Blue   |

**KEY:** 1.a, 2.d, 3.c

**REFERENCE:** Main Point 1

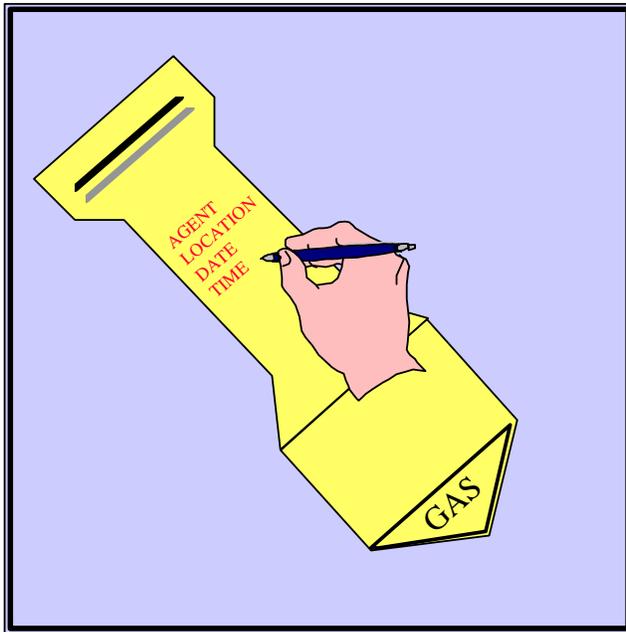


**PART IV**  
**RELATED MATERIALS**

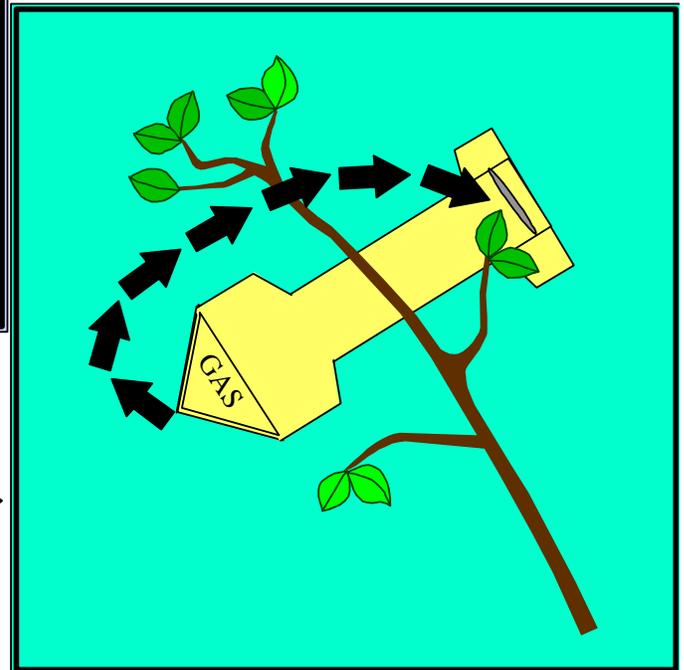
**ATTACHMENT 1.** Attaching a Marking Flag to an Object

**ATTACHMENT 2.** Marking a Large Area





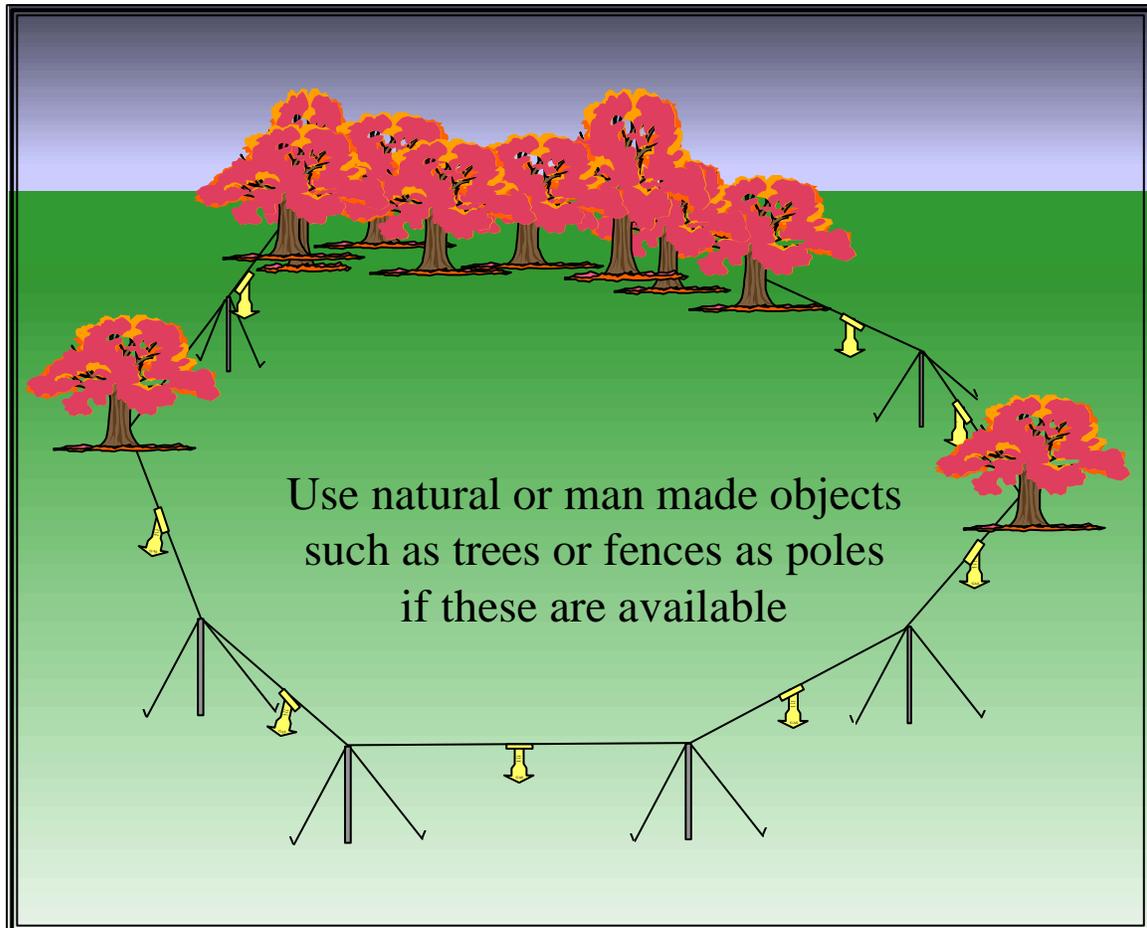
1. Mark required information on the flag.



2. Attach flag to an object and fold flag bottom to keep it from curling

Attachment 1 - Attaching a Marking Flag to an Object

## MARKING A LARGE AREA



Attachment 2 - Marking a Large Area

TRAINING PACKAGE COMMENT REPORT

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