

**OUTLINE SHEET 4.4  
ALTERNATE RESCUE DEVICES**

**INTRODUCTION**

During this unit of instruction the rescue swimmer will learn the alternate rescue devices used in different rescue scenarios. The various equipment listed below will aid the rescue swimmer in these situations. Along with knowing this equipment, the rescue swimmer will become familiar with the maintenance requirements before using the gear.

**ENABLING OBJECTIVES:**

- 3.30 State the requirements for maintenance of emergency rescue equipment per, NAVAIR 13-1-6 series, NTTP 3-50.1, and current maintenance requirement cards (MRC's).
- 3.31 Describe the functional operation of the following Emergency Rescue Equipment per NTTP 3-50-1:
  - a. V-Blade Rescue Knife
  - b. Grapnel Hook
  - c. Boat Hook
  - d. Level A Medical Kit
  - e. Life Rafts
  - f. Heaving Line
  - g. Tending Line
  - h. Life Rings
  - i. Chemical Light Strap
  - j. Chemical Light
  - k. Blanket

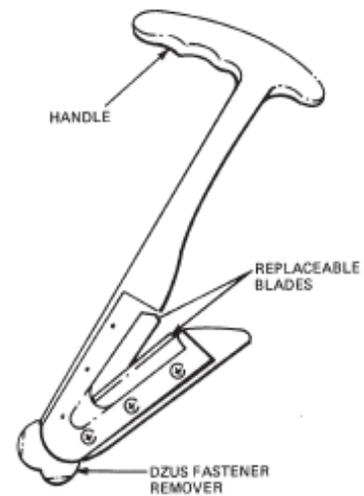
**TOPIC OUTLINE**

**A. V-blade Rescue Knife**

- 1. Fixed cutting area, on one end cuts material up to 1/4" thickness.
- 2. DZUS (pronounce ZEUS) fastener remover to remove access panels on aircraft (if necessary).
- 3. Handle grip fits either hand comfortably.
- 4. Used to cut parachute risers.

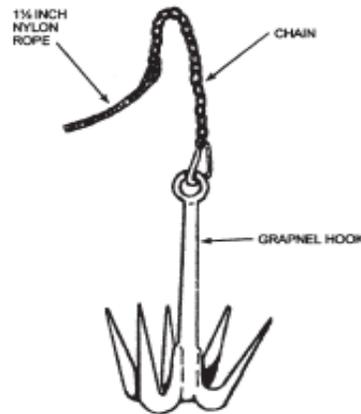
**B. Grapnel hook**

- 1. Multi-prong steel hook.



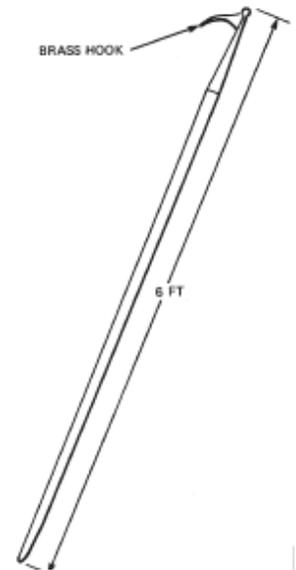
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2. Used for recovering aircraft parts, body parts, or hooking a sinking parachute that is out of the reach of the boat hook.
3. Weighs 4 lbs. and is attached to 100 feet of 1.5" circumference nylon line via a 1/4" chain.



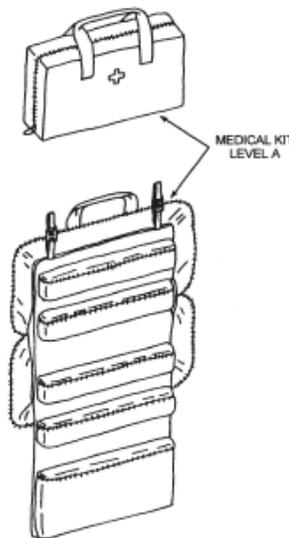
**C. Boat hook**

1. Six foot wooden staff.
2. Has brass hook and prod at one end.
3. Normally used to fend off or hold on in a boat.
4. For SAR, used by boat crew to snag and retrieve parachute.



**D. Level "A" Medical Kit**

1. Designed for use by the \_\_\_\_\_ and the \_\_\_\_\_.
2. Carried on all SAR capable platforms.
3. Rescue swimmer **shall** have a working knowledge of all contents.



**E. Life Rafts**

1. Used when \_\_\_\_\_ survivors are at the rescue scene.
2. Can support \_\_\_\_\_ the rated capacity if survivors are placed around outside of raft.
3. Can also be used for staging survivors during disentanglement.
4. Discard life raft if it becomes a \_\_\_\_\_ to the rescue
5. Discard rafts by puncturing prior to leaving scene.

**NOTE**

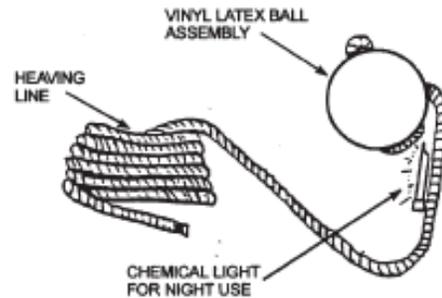
An empty floating raft could start an unnecessary rescue effort.

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**WARNING**

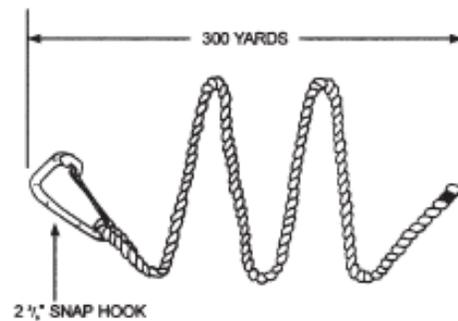
**F. Heaving lines**

1. 3/8" polypropylene line, 100 feet long, with a weighted and padded orange vinyl throwing ball.
2. Used during "ship alongside" recovery to get a line to the survivor.
3. Thrown past and over the head of survivors.



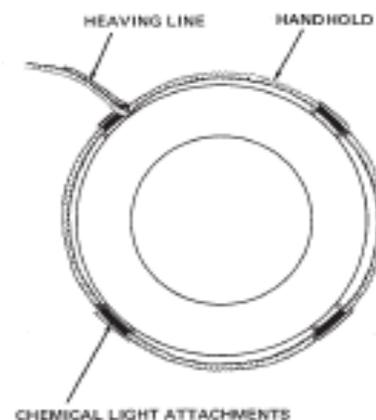
**G. Tending Line**

1. 3/4" circumference line.
2. 300 yard, 800 lb test polypropylene line. Has a 2 3/8" snap hook on one end.
3. Assembly attaches to swimmers harness.



**H. Life rings**

1. 24" diameter, doughnut-shaped, inherently buoyant material, with at least 100 feet of heaving line attached.
2. Has rope attached to perimeter to provide survivors with a handhold.
3. Normally used for man overboard, but may be used anywhere that extra flotation is needed.
4. Thrown past and over the head of survivors.



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**I. Chemical lights**

1. Two types currently in use:

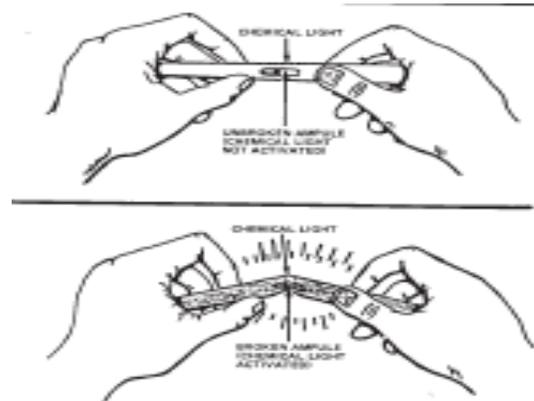
a. \_\_\_\_\_ minute high intensity.

b. \_\_\_\_\_ hour general purpose

2. Self contained, compact, easily stored.

3. Emit Omni-directional light.

4. Windproof, waterproof, nonflammable and require no batteries.



**J. Chemical light Straps**

1. Nylon strap with three snap hooks.

2. One snap hook on each end and one in the middle.

**K. Blankets**

1. Standard wool blanket \_\_\_\_\_ feet.

2. Used for treatment of hypothermia.

