

**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:

- 3.31 State the requirements for maintenance of emergency rescue equipment per NAVAIR 13-1-6 series and current maintenance requirement cards (MRC's).
- 3.32 Describe the functional operation of the following Emergency Rescue Equipment per NWP 3-50-1:
 - a. Helicopter Rescue Equipment Case (BGU-8/N)
 - b. Hoisting Gloves
 - c. Crewman Safety Belt
 - d. Cable Grip (Chicago Grip)
 - e. Chemical Lights
 - f. Chemical Light Strap
 - g. Rescue Litter Sling Assembly
 - h. Hoist Quick Splice
 - i. Pneumatic Rescue Hand Tool/Handheld Cable Cutter
 - j. Blanket
 - k. Cranial Assembly
 - l. Level A Medical Kit

**HELICOPTER RESCUE EQUIPMENT
CASE (BGU-8/N):**

- 1. Has _____ for storage of helicopter rescue equipment.
- 2. Can be secured from support rails, tie down rings, etc., inside the cabin of the helicopter.
- 3. Items found in this case will be discussed in order from top to bottom throughout in the lecture.

CHEMICAL LIGHTS:

- 1. Two types currently in use:
 - a. _____ minute high intensity.

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- b. _____ hour general purpose
- 2. Self contained, compact, easily stored.
- 3. Emit Omni-directional light.
- 4. Windproof, waterproof, nonflammable and require no batteries.

CREWMAN SAFETY

BELT:

WARNING
Crewman safety belts shall not be worn when strapped into a seat.

- 1. Primarily used as a _____ by the crew while performing hoisting operations in the aircraft doorway.
- 2. Provided with pull-tabs and adapters for size adjustment.
- 3. _____ assembly for easy donning.
- 4. Meshed to the back of the belt is a length adjustable nylon strap with a snap hook for _____ to a tie down fitting.

CABLE GRIP

(CHICAGO GRIP):

(Diagram 4.4-1)

- 1. Used in the event of a hoist drum malfunction or a _____ to hoist cable.
- 2. Capable of supporting _____ lbs.
- 3. Attaches to crewman safety belt to take weight off hoist assembly during a hoist failure.
- 4. Procedures for use can be found in chapter 1 of NWP 3-50.1 series.

CHEMICAL LIGHT

STRAPS:

- 1. Nylon strap with three snap hooks.
- 2. One snap hook on each end and one in the middle.

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**HOISTING
GLOVES:**

1. Made of _____.
2. Used to _____ to crew chief's hands while guiding hoisting cable.

**RESCUE LITTER
SLING:**

1. Consists of two sets of two _____ cables.
2. One set for each side litter.
3. Each set consists of a lifting ring and two locking carabineers.

CAUTION

Attach short legs (_____) to the head end of litter and attach long legs (_____) to the foot end of litter when attaching sling assembly to the rescue litter.

HOIST QUICK

SPLICE (Diagram 4.4-1):

1. Flat rectangular aluminum plate with rounded corners and attached _____.
2. Used when hoist cable breaks or has been cut.
3. Bitter end of the severed cable is threaded through _____ numbered holes and secured with a _____.
4. Procedures for use can be found in chapter 1 of the NWP 3-50.1 series.

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PNEUMATIC TOOL:

1. Designed for cutting heavy webbing.
2. Can be used by rescue swimmer for cutting parachute risers.
3. Has jaw for prying open or breaking canopies.
4. Contains a 3000 psi nitrogen cartridge in the handle chamber.
5. Procedures for use can be found in chapter 1 of NWP 3-50.1 series.
6. Hand-held Cable Cutter can be used as a replacement.

**BLANKETS/CRANIAL
ASSEMBLY:**

1. Blanket
 - a. Standard wool blanket _____ ft.
 - b. Used for treatment of hypothermia.
2. Cranial Assembly
 - a. Cloth helmet with chinstrap designed to incorporate protective devices.
 - b. Rigid plastic with cushion liners that snap on for head protection.
 - c. Sound attenuators for _____ protection.
 - d. Goggles for _____ protection.

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.

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NOTE

An empty floating raft could start an unnecessary rescue effort.

WARNING

LEVEL A MEDICAL

KIT:

1. Designed for use by the _____ and the _____.
2. Carried on all SAR capable helicopters.
3. Rescue Swimmer **shall** have a working knowledge of all contents.