

## PSDiver Monthly Continuing Education

### PSDM-CE-69

## Basic Lift Operations Lift Devices and theory

- 1) Rating a lift device in pounds takes the guess work out of lifting using cubic feet.
  - a. True
  - b. False
  
- 2) What is the basic formula for lifting an object from depth?
  - a.  $W-CX2$
  - b.  $14.7 \times \text{depth} \times \text{weight}$
  - c.  $2 \times 14.7 - \text{weight}$
  - d.  $P1 \times V1 = P2 \times V2$
  
- 3) Use your breathing bottle when filling lifting devices under \_\_\_\_\_ pounds.
  - a. 250
  - b. 100
  - c. 50
  - d. 25
  - e. You should never use your breathing bottle for lift filling.
  
- 4) Nitrogen is a good gas for lift filling.
  - a. True
  - b. False
  
- 5) The best lifting device is a \_\_\_\_\_.
  - a. Non-Flexible container
  - b. Flexible container
  - c. Open pillow
  - d. Plastic drums
  
- 6) Always ascend with the lift device to prevent run-away.
  - a. True
  - b. False
  
- 7) A general rule for lift amount is to double the weight of the object.
  - a. True
  - b. False

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- 8) Lifting devices should be filled using \_\_\_\_\_.
- a. Permanent lines
  - b. Hand pumps
  - c. Back pack tanks
  - d. Detachable lines
- 9) Lifting devices should incorporate an over inflation valve.
- a. True
  - b. False
- 10) Fill valves should be operated by the \_\_\_\_\_.
- a. Diver
  - b. Back up diver
  - c. Tender
  - d. Compressor operator
- 11) A typical 1000 pound lift bag displaces how many cubic feet of water at the surface.
- a. 4
  - b. 8
  - c. 16
  - d. 32
- 12) The advantage of pillow bags over open bottom bags is.
- a. They float higher in the water
  - b. They lift more weight
  - c. They use less air to fill
  - d. They obtain their maximum lift in much less water

**TEAM DISCUSSION TOPICS:**

**Team discussion: Discuss the need to use flexible devices over rigid devices.**

**Discuss the benefits of using surface supplied air for lift device fill**

**Discuss the OSH rules and where they apply with respect to salvage and lift.**

**Discuss why a flexible container is better than a ridged container.**

**Chemical spill information can be obtained by calling  
1-800-424-9300.**


**Is this number in your phone list?**

answers


1	2	3	4	5	6	7	8	9	10	11	12
A	D	E	B	B	B	B	D	T	D	C	D

**These training agencies** have recognized PSDiver Monthly as a valued addition to their programs and Continuing Education requirements.


**Public Safety Diving Association**(PSDA)  
recognizes and approves the PSDiver CE program. Each month's Q&A program credits 1 CEU for renewal up to a maximum of 3 CEUs from this source for each year's renewal.



**ERDi** Recognizes and supports the PSDiver Monthly CE Program. Contact your ERDI Instructor for details.



**Life Saving Resources**  
Lifesaving Resources advocates the need for Public Safety and Rescue personnel to be trained in Water and Ice Rescue and recognizes the PSDiver Monthly CE Program for continuing education training and credits.



We welcome all training agencies and organizations to participate.

For details, email [PSDiverMonthly@aol.com](mailto:PSDiverMonthly@aol.com)