

EMPLOYEE TRAINING RECORD

TRAINING TITLE Flashlight Explosions

KEY TEACHING POINTS

According to the National Institute of Occupational Safety and Health, flashlights can explode while in the hands of workers if they are not used correctly.

Most of the batteries commonly used in flashlights produce hydrogen gas when the zinc electrode in the batteries corrodes. If hydrogen gas accumulates within batteries or battery compartments and cannot be released, it builds up pressure and can cause the battery to explode when ignited by a spark or excessive heat.

Excess hydrogen gas is more likely to be created if batteries are used incorrectly. In order to protect yourself, you should follow these precautions:

- * Read and follow the manufacturer's recommendations for product use.
- * Do not mix old and new batteries.
- * Do not use damaged batteries.
- * When you install batteries, be sure to put them in according to the polarity indicated.

Before you use approved battery-powered flashlights in flammable atmospheres, inspect them to ensure that the batteries are in good condition and that the proper batteries installed correctly. If you open the battery compartment, that should allow any accumulated hydrogen gas to dissipate. Do not inspect the flashlight in a hazardous area or near an open flame.

TEST

QUESTION	ANSWERS	
	TRUE	FALSE
1 Most of the batteries commonly used in flashlights produce hydrogen gas.		
2 Do not mix old and new batteries.		
3 Do not use damaged batteries.		
4 When you install batteries, be sure to put them in according to the polarity indicated.		
5 Do not inspect the flashlight in a hazardous area or near an open flame.		
EMPLOYEE'S NAME	EMPLOYEE'S SIGNATURE	DATE
INSTRUCTOR'S NAME	INSTRUCTOR'S SIGNATURE	DATE