

## CYLINDER SAFETY

### SAFETY TEST SERIES – EXAM 4 REVIEW



Name \_\_\_\_\_

Date \_\_\_\_\_

#### Question 1

■Cylinders are normally constructed of mild steel plate and can be dented in not handled properly:

□ \_\_\_\_\_ - cylinders are normally constructed of steel and wrought iron as well as rolled, forged, or cast steel.

#### Question 2

■Until they are given permission by their instructor, welders should not attempt to move cylinders from the storage area:

□ \_\_\_\_\_ -It is a good safety practice to seek permission from the instructor before any repairs or refills are made. The instructor is essential the shop manager and management approval is generally required.

#### Question 3

■Oxygen and acetylene cylinders can be stored together outside the welding area:

□ \_\_\_\_\_ -Oxygen and acetylene cylinders stored together create an explosive scenario in the event of a fire. Acetylene and oxygen are two parts of the fire triangle.

#### Question 4

■If oxygen and acetylene cylinders are stored separately, they must be separated by a 5 foot high wall with a 30 minute burning rating or be separated by at least 20 feet.

□ \_\_\_\_\_ -The purpose of the distance or wall is to keep the heat of a small fire from causing the oxygen cylinder safety valve to release.

#### Question 5

■Both oxygen and acetylene cylinders should be stored vertically.

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□ \_\_\_\_\_ -All cylinders should be stored vertically and have protective safety caps attached.

#### Question 6

■ If for some reason, an acetylene cylinder has been lying on its side, place it in an upright position and wait at least 15 minutes before using the cylinder.

□ \_\_\_\_\_ -The cylinder is filled with a porous material, and then acetone is added to the cylinder, where it absorbs about 24 times its own weight in acetylene. Placing the cylinder upright allows the acetone to even out.

#### Question 7

■ Never move a cylinder that has an attached regulator.

□ \_\_\_\_\_ -The exception is if the cylinder is secured by chain to a cylinder cart in use.

#### Question 8

■ Never move a cylinder by rolling it on its edge. It may break the floor or roll over another welder's foot.

□ \_\_\_\_\_ -Rolling cylinders on their edge is the safest way to move a cylinder from place to place in the shop.

#### Question 9

■ If the cylinder does not have a safety cap, the cylinder can be moved if extra safety practices are followed.

□ \_\_\_\_\_ -Cylinders should not be handled without the safety cap attached. Cylinder valves could be severely damaged in the event of a fall.

#### Question 10

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■“Cracking” a cylinder means tapping the cylinder valve with a hammer to remove ice, dirt, or water from the valve outlet.

□ \_\_\_\_\_ -“Cracking” is a term used to describe opening cylinder valves to blow out any dirt or debris resting in the valves.

#### Question 11

■The oxygen regulator and hose connections have:

□ \_\_\_\_\_ -Oxygen fittings are always right handed and fuel fitting are left handed to insure minimal confusion in assembly.

#### Question 12

■The acetylene regulator and hose connections have:

□ \_\_\_\_\_ -Fuel connections also have a groove in the connecting fitting to indicate a distinguishable difference from oxygen fittings.

#### Question 13

■Right-hand threads run:

□ \_\_\_\_\_

#### Question 14

■Left-hand threads run:

□ \_\_\_\_\_

#### Question 15

■Green hoses are used for:

□ \_\_\_\_\_ -Most oxy-fuel hoses today are molded together as one piece and are referred to as a Siamese hose.

#### Question 16

▪The term “purging” means to use oxygen or acetylene gas to clean out dirt and other foreign material from the regulators, hoses, and torch.

□ \_\_\_\_\_ -Generally, lines are purged during set-up before cutting or welding begins.

#### Question 17

▪The purpose of the “reverse flow” valve is to prevent oxygen from entering the acetylene hose and acetylene from entering the oxygen hose.

□ \_\_\_\_\_ -If the gases being used are allowed to mix in the hose or regulator, they might explode.

#### Question 18

▪The oxygen fittings have a groove around the middle of the connection.

□ \_\_\_\_\_ -Fuel fittings have a groove around the middle of the connection.

#### Question 19

▪Cylinders should never be lifted by the valve or safety cap.

□ \_\_\_\_\_ -The valve can easily break off or be damaged.

#### Question 20

▪Inert gas cylinders may be stored with oxygen cylinders.

□ \_\_\_\_\_ -Inert gases do not react chemically with other substances. Most inert gases used in shops are argon, carbon dioxide, and helium.