## **LESSON PLAN**

Date	Trade:- Welder
Name	Week No:- Ten

## Subject :-

Oxygen gas and its properties. Production of oxygen by air liquefaction. Charging process of oxygen and acetylene gases. Oxygen and DA cylinder, color coding for different cylinders. Gas regulator types and uses.

Motivations:- in previous week we learned about Calcium carbide-property and uses. Acetylene gas properties and generating methods. Acetylene gas purifier, hydraulic back pressure valve and flash back arrestor.

**PREPARATION: -** Teaching Aids:-Chalk, Charts,

INTRODUCTION: -Oxygen gas are very important gas in world for human being and industry. Each burning process could not done without oxygen.

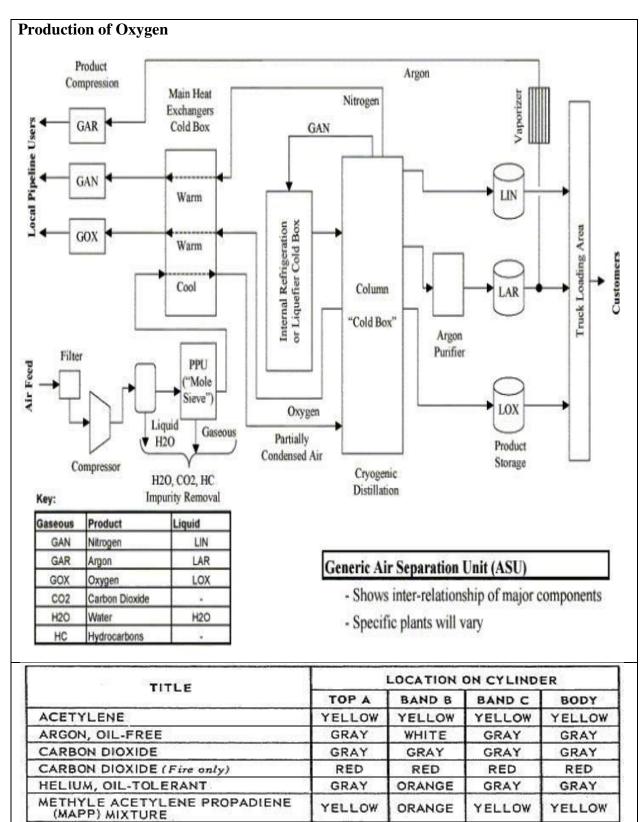
#### PRESENTATION:-

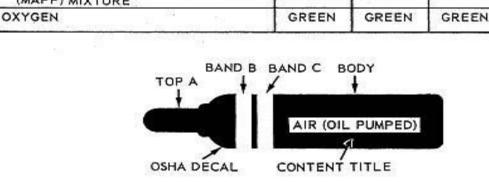
Topic	Information Point	Spot Hint	
Oxygen	There are three types of gases.	There are three types of gases.	
	1. Combustible.		
	2. Support of combustible (only of	oxygen)	
	3. Inret		

Formula :the formula for oxygen is O2. It is in its molecular form to make a stable configuration. Ozone gas is O3.

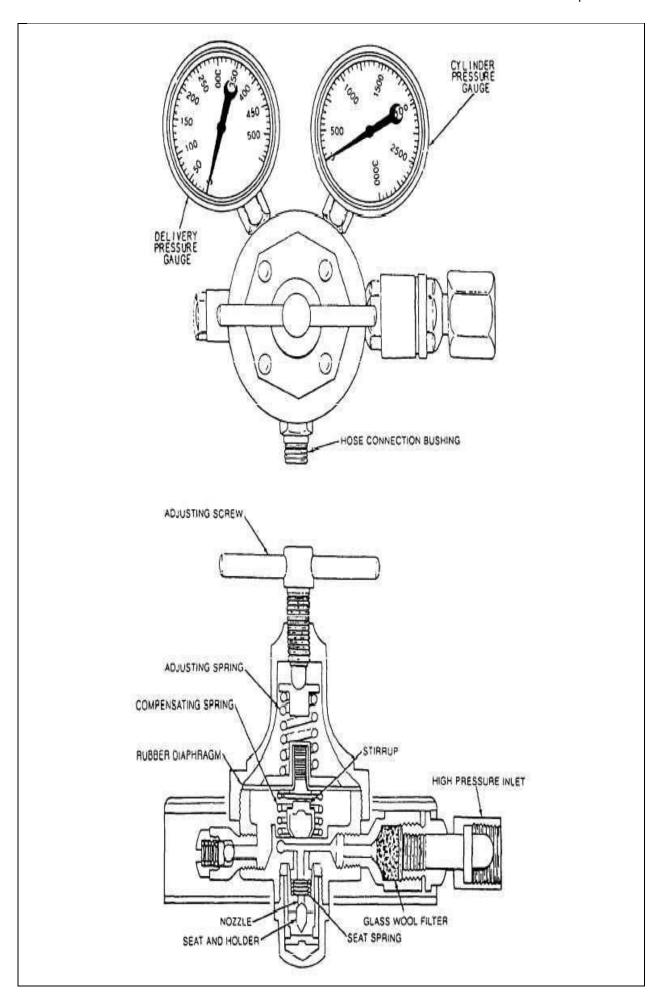


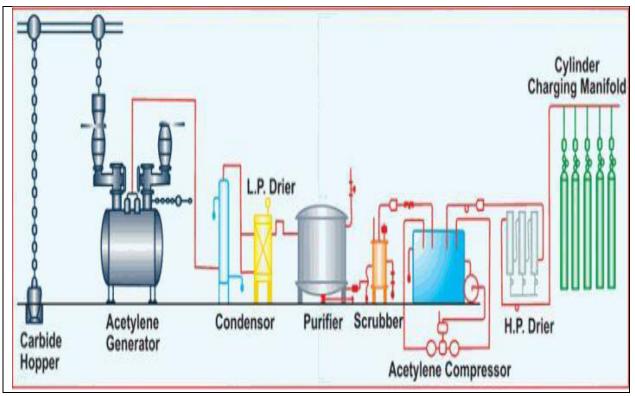
- Oxygen is colorless.
- Oxygen is very reactive in its elemental form. Its most common form is O₂.
  O₃ is another form of oxygen which is called ozone
- Approximately 70% of the human bodies mass is oxygen.
- Oxygen is completely essential for human survival.





GREEN





# Questions:-

- 1. Write oxygen gas properties.
- 2. What is color coding?
- 3. What is Air liquefaction?

Next week:-Oxy-acetylene gas welding system (low pressure and high pressure) Difference between gas welding blow pipe(LP and HP) and cutting blow pipe. Gas welding technique (right ward and left ward.

## Assignments:-

Oxygen gas and its properties. Production of oxygen by air liquefaction. Charging process of oxygen and acetylene gases. Oxygen and DA cylinder, color coding for different cylinders. Gas regulator types and uses.

Checked By	Instructor