The Pennsylvania State University
Workforce Education and Development

Lesson Plan Template

Name of Instructor: Larry Brown
Program Title: Welding Technology/ Welder
Course Title: Welding
Unit Title: Welding Assignment #1
Lesson Title: Oxy- Fuel Torch and Cutting Procedures.
Lesson Performance Objective: Given the information students will be able to research and answer the following questions about Oxy-Fuel cutting procedures.
Time (length of lesson): 20-30 mins.
Equipment and Materials needed: Computer or textbook for information.
Technical Standard(s): CIP Manual Oxy-Fuel Cutting 901, 902, 903.
Academic Standard(s):
Introduction By now students will have experienced basic Oxy-Fuel cutting torch operations. They will be able to research and answer the questions on the worksheet.

Body: Students will gain information of proper step by step operation of Oxy-Fuel Cutting Procedures.

Summary: Given the information students will be able to return to the shop and perform cutting tasks with a higher proficiency level.

Student Assessment:

Formative Assessment(s)

Summative Assessment:

Universal Design for Learning (UDL)

Multiple Means of Engagement:

Multiple Means of Representation:

Multiple Means of Expression:

Welding Assignment #1

Oxy-Fuel Torch and Cutting Procedures

1. A cut made by a torch is called a _____.
2. What is the correct name for the holes in a cutting torch tip _____.
3. An oxygen cylinder has what type of valve. _____.
4. Oxy-acetylene cutting tip is made of _____.
5. Name the most often used flame when cutting with an oxy-acetylene torch_____.
6. A full cylinder of oxygen will contain A. 2000 psi. B. 2500 psi C.2200 psi., D. 3000 psi of pressure.
7. What is the maximum working pressure for acetylene gas. _____.
8. What is the liquid used in an acetylene cylinder to stabilized the acetylene gas _____.
9. Torches and regulators are made of what type of metal _____.
10. What is the pressure of an acetylene cylinder when full_____.
11. What is the oxygen/acetylene ratio for cutting with a torch_____.
12. Which cutting tip is larger. A. 000, B 0, C. 1, D. 00.
13. What is R.B.O. _____.
14. What is the melting point of mild steel _____.
15. There are two types of regulators used in oxy-acetylene torch procedures single stage and double stage regulators. Explain how each one works and the advantages and disadvantages of each_____

_____

_____

_____

_____

_____

_____

_____.

Name _____ Date _____

① $3\frac{7}{8} + 5\frac{3}{4}$

② $7\frac{3}{8} - 5\frac{15}{16}$

③ $12\frac{13}{16} + 2\frac{7}{8}$

④ $12\frac{5}{8} - 7\frac{3}{4}$

⑤ $1\frac{1}{8} + \frac{1}{4} + \frac{5}{8}$

⑥ $1.0351 + .1579$

⑦ $7,135 - 986$

⑧ $437.97 + 27.88$

⑨ $5,280 - 1,768$

⑩ $4,203 - 659$

⑪ $12\frac{5}{8} - 9\frac{15}{16}$

⑫ $3\frac{1}{2} + 6\frac{3}{8} + \frac{15}{16}$

⑬ $6\frac{3}{8} - 2\frac{1}{2}$

⑭ $8\frac{3}{8} - 4\frac{5}{8}$

⑮ $2\frac{3}{16} + \frac{7}{8}$

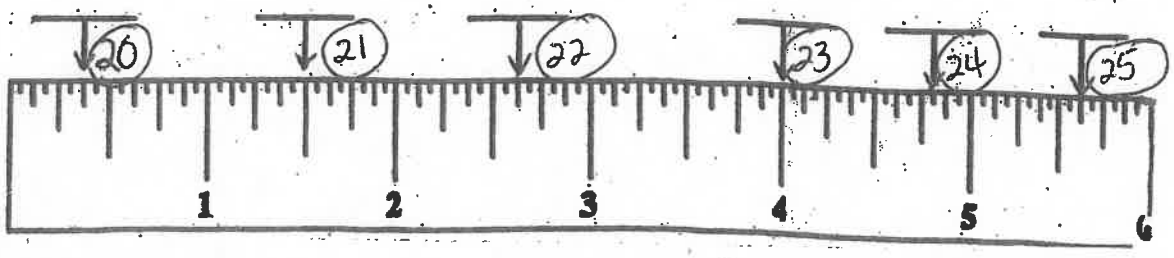
⑯ $.875 + .626 + 1.125$

⑰ $2\frac{13}{16} - 1\frac{15}{16}$

⑱ $7\frac{1}{16} + 8\frac{3}{8} + 1\frac{11}{16}$

⑲ $3\frac{7}{16} - 1\frac{1}{2}$

Write the ruler measurement on top of the line



3/21/22