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 #5
Lesson Title: Flux Core Arc Welding Procedures
Lesson Performance Objective: Given the information students will be able to answer the following questions about Flux Core Arc Welding.
Time (length of lesson): 20-30 mins.
Equipment and Materials needed: Students will use a computer and or a textbook for finding information to complete assignments.
Technical Standard(s): CIP 701, 702, 703.
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Academic Standard(s):
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Introduction By now students have experienced basic Flux Core Shielded Arc welding procedures. Students will be able to research and answer questions on the worksheet.

Body: Students will gain information in this worksheet to assist them with step by step procedures using the Flux Core Shielded Arc Welding process.						
Summary: Given the information each student will gain from completing the worksheet, students will return to the shop and perform welding tasks at 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 # 5

Flux Core Arc Welding

1.	What is the difference between FCAW and GMAW						
2.	What type of welding machine is most used for FCAW						
3.	FCAW-S wire is different than solid wire. Explain the difference between the two wires						
4.	Welding machine polarity must be for welding with flux core shielded wire.						
Flux core shielded wire can be used in windy conditions up to 30 m still produce quality welds. True or False.							
6.	Flux core filler wire is able to produce welds with a tensile strength of						
7.	Name two advantages using flux core filler wire over SMAW						
	What type of drive rolls are preferred when welding with flux core shielded wire						
9.	Flux core filler wires have a tensile strength ofpsi.						
10.	Flux core shielded wire forms a slag over the weld to protect it from						
	A common shielding gas mixture for FCAW-G is 75%argon and 25%CO2, Nitrogen, Argon, or Helium. (Circle one)						
	FCAW is a cheaper welding process than SMAW process. True or False.						
	Welders often use CO2 as a shielding gas when welding with FCAW-G wire. What is one of the main reasons						
	The welding FCAW-S requires the welder to use a nozzle on the welding gun. True or False.						

MATH QUIZ.

1. + 314.08

2, + 43.51 67.85 7.19

6 % TAX

TOTAL

62TAX

TOTAL

3. 61.89 24.17

4, 135.55 + 318.06

670TAX TOTAL ____ 6% TPX TOTAL _____

5. 33.64 + 18.87 - 91.93

6. 467.91 + 848.79

68 TAX ...

6 % TAX TOTAL

TOTAL