## The Pennsylvania State University Workforce Education and Development

**Lesson Plan Template** 

Name of Instructor: Larry Brown								
Program Title: Welding / Welder								
Course Title: Welding								
Unit Title: Welding Assignment #3								
Lesson Title: Gas Metal Arc Welding Procedures								
Lesson Performance Objective: Given the information students will be able to research and answer the following questions about Gas Metal Arc Welding procedures.								
Time (length of lesson): 20-30 mins.								
Equipment and Materials needed: Computer and or textbook for information.								
Technical Standard(s): CIP 601, 602, 603.								
Academic Standard(s):								
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Introduction By now students have experienced basic Gas Metal Arc Welding procedures. They will be able to research and answer the questions on the worksheet.								

Body: Students will gain information in this worksheet to assist them with step by welding procedures using Gas Metal Arc Welding process.
Summary: Given the information in this worksheet students will be able to 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:

## Gas Metal Arc Welding Assignment #3

1.	A GMAW power source must be A. High Voltage B. Variable Voltage, C.
	Constant Voltage, D. Direct Current.
2.	GMAW is capable of producing three modes of metal transfer. Name one of
	the three modes
3.	What does the term Birdnesting mean when welding with the GMAW
	process·
4.	Name the three types of drive rolls used in GMAW
	What is the most common shielding gas used when welding with E 70S6 wire
6.	Contact tips are made of what type of metal
7.	Name an advantage of using CO2 for a shielding when welding with solid
	wire
8.	Name a disadvantage of using CO2 for a shielding
	gas·
9.	For most welding when using the GMAW process the gas flow rate is approximately
10	. When welding with solid wire which current flow or polarity should be
	used for deep penetration
11	. What is the oxygen content in the air we breathe
12	. Theshould be removed before welding.
13	. Drive rolls in GMAW machines are made of A. Stainless Steel, B. Cast Iron,
	C. Cast Steel, D. Harden Steel
14	. Welding with E70S3, or E70S6 wire what does the 70 mean
15	What does CTWD mean