## 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 #4
Lesson Title: Gas Tungsten Arc Welding Procedures
Lesson Performance Objective: Given the information students will be able to answer the following questions about Gas Tungsten Arc Welding
Time (length of lesson): 20-30 mins.
Equipment and Materials needed: Computer and or textbook for information.
Technical Standard(s): CIP 801, 802, 803.
Academic Standard(s):
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Introduction By now students have experienced basic Gas Tungsten Arc Welding procedures. They will be able to research and answer questions on the worksheet.

Boo by s	dy: Students will gain information in this worksheet to assist them with step step procedures using the Gas Tungsten Arc Welding process.
work	nmary: Given the information each student will gain from completing the sheet students will be able to return to the shop and perform welding is at a higher proficiency level.
Stud	lent Assessment:
	Formative Assessment(s)
	Summative Assessment:
Univ	ersal Design for Learning (UDL)
	Multiple Means of Engagement:
	Multiple Means of Representation:
	Multiple Means of Expression:

## Welding Assignment #4

## Gas Tungsten Arc Welding

1.	When welding DCEN or straight polarity the weld that is made will have a					
	deep penetration. True or False.					
	Name three types of metal that can be welded with DCEN or straight					
	polarity. 1,2					
	3					
3.	What type of shielding gas is used for welding Stainless steel					
	When welding DCEN on carbon steel, what percentage is the current flow going through the work clamp 50% 65% 45% or 70%.					
5.	Tungsten melts at what temperature					
6.	When welding 1/8 metal what size tungsten should be used to make the					
	weld 3/32, 1/8, 1/16 or .040					
7.	What current is used to weld aluminum					
	Name two common types of metal welded with ACHF					
9.	Explain in detail the advantage or disadvantage of using a gas lens whin using the GTAW process					
	asing the control process					
	What should the regulator pressure be set at for most gas tungsten arc					

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