Piedmont Technical College Course Syllabus

COURSE INFORMATION

Course Prefix/Number: WLD 229

Title: Inert Gas Welding Pipe II

Responsible Division: Engineering/Industrial

Last Day to Withdraw from this Course: For the last date to withdraw from this course, consult the current *Student Calendar*.

Course Description:

For course, credit hour, pre-requisite(s) and co-requisite(s) information, visit the Detailed Course Information page: www.ptc.edu/courses/WLD229.

Textbook and Other Materials:

For textbook information and additional required and/or supplemental materials, visit the college bookstore (www.ptc.edu/bookstore).

Proctored Examinations:

Proctored examinations for distance learning courses taken at non-PTC campuses may require a proctoring fee for each exam taken.

COURSE POLICIES

Course policies are available online through the *Academic Catalog* and *Student Handbook*. Visit the Course Policies page (www.ptc.edu/syllabus/policies) for a detailed list of important policies and more information.

GRADE POLICY

Detailed grading policy information can be found on the Grading Policy webpage (http://www.ptc.edu/grading-policy). Final grade appeal information is available in the *Academic Catalog* (http://www.ptc.edu/catalog/).

ACCOMMODATIONS

Accommodations for ADA:

Information is available on the Student Disability Services webpage (http://www.ptc.edu/ada).

TITLE IX HARASSMENT AND SEXUAL ASSAULT INFORMATION

In accordance with Title IX of the Education Amendments of 1972, Piedmont Technical College does not discriminate on the basis of sex in its education programs or activities. Title IX protects students, employees, and applicants from sex discrimination in admissions and employment to include discrimination based on gender identity or failure to conform to stereotypical notions of masculinity or femininity. More information regarding Title IX, including contact information for the Title IX coordinators, is available at Title IX Harassment and Sexual Assault Information (https://www.ptc.edu/about/legal-disclosures/title-ix-harassment-andsexual-assault-information).

RATIONALE

Why do I need this course?

The GTAW process produces extremely high quality welds and is therefore a vital part of welding skills. The welder's knowledge with the GTAW process enables him to weld alloyed steel and non-ferrous metals such as stainless steel and Aluminium. Welders who are competent in the use of inert-gas welding equipment are in great demand.

PROGRAM INFORMATION

For program information including required courses, program learning outcomes, gainful employment information and advisement information, refer to the Academic Program webpage. Go to Academics (http://www.ptc.edu/academics), select your program, and then select Credentials Offered.

COURSE STUDENT LEARNING OUTCOMES

Upon successful completion of this course and/or clinical, each student will be able to:

. Demonstrate the ability to prepare pipe to be welded in the GTAW process

.Demonstrate the ability to fit up and tack weld coupons

. Demonstrate the ability to (GTAW) GAS TUNGSTEN ARC WELD groove welds on alloyed steel and non-ferrous pipe.

.Explain the techniques used (GTAW) GAS TUNGSTEN ARC WELDING on alloyed steel and non-ferrous metals.

. Explain the Application of safety when welding.

GENERAL EDUCATION COMPETENCIES

Piedmont Technical College General Education Competencies for All Graduates:

This course may address one or more of the following General Education Competencies (assessment will be stated when applicable):

Communicate effectively.

Assessment:

Demonstrate the ability to comprehened and follow instructions to complete assigned task .

Apply mathematical skills appropriate to an occupation.

Assessment:

Successfully apply mathematical skills when calculating mesuerments while working on projects and or drawings

Employ effective processes for resolving problems and making decisions.

Assessment:

Demonstrate the ability to critically think and solve problems as assessed by lab performance.

Demonstrate the basic computer skills necessary to function in a technological world.

Assessment:

Demonstrate the ability to locate and retrieve digital information as evidenced by use of the D2L system

To validate proficiency in the general education competencies, students in some programs will be tested using Work Keys.