

Piedmont Technical College Course Syllabus

COURSE INFORMATION

Course Prefix/Number: WLD 142

Title: Maintenance Welding

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/WLD142.

Textbook and Other Materials:

For textbook information and additional required and/or supplemental materials, visit the [college bookstore](http://www.ptc.edu/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](http://www.ptc.edu/syllabus/policies) (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) (http://www.ptc.edu/grading-policy). Final grade appeal information is available in the [Academic Catalog](http://www.ptc.edu/catalog/) (http://www.ptc.edu/catalog/).

ACCOMMODATIONS

Accommodations for ADA:

Information is available on the [Student Disability Services webpage](http://www.ptc.edu/ada) (<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-and-sexual-assault-information) (<https://www.ptc.edu/about/legal-disclosures/title-ix-harassment-and-sexual-assault-information>).

RATIONALE

Why do I need this course?

Maintenance welding has in recent years, become increasingly important. Industry needs not only machinists to make new parts but also welding technicians to repair broken parts, HVAC technicians to braze and solder connections on equipment and automotive to cut off worn mufflers and weld new ones to existing tailpipes. This course is designed to assist the student in gaining the knowledge and skills necessary to accomplish these goals.

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) (<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:

- Cut with the oxyacetylene torch.
- Braze and Fusion Weld with oxyacetylene
- GMAW, 2F, 1/4" Plate, Push, 6 Stringer Beads.
- Apply safety rules 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 comprehend and follow instructions to complete assigned task.

Apply mathematical skills appropriate to an occupation.

Assessment:

Successfully apply mathematical skills when calculating measurements 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.