

A.C Jones High School: CTE Department
Welding 1

[2018-2019] Course Syllabus

Instructor Information

- **Instructor:** Thomas Camacho Jr.
- **Office:** Rm: 401
- **Office Hours:** Conference Period and 30 Min After School
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Course Description

- Welding 1 provides the knowledge, skills, and technologies required for employment in metal technology systems. Students will develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success.

Prerequisite

- Introduction to Welding.

Course Materials

- **Required Materials:**
 - **Welding Students are required to provide the following items:**
 - Welding Hood, Long-Sleeve Work Shirt, Work Pants, Leather Boots, Leather Welding Gloves and Welding Cap.
 - **ANSI Z87+** Safety Glasses and **Shade 5** Cutting Glasses or Goggles.
 - Standard School Supplies: Paper, Pens, Pencils

Course Requirements

- Students will be required to work safely and in a professional manner while in welding.
- Students will be required to follow directions to complete various welded coupons.
- Students will be required to utilize welding equipment/tools and handle with care.
- Students will be required to dress-out for welding.
- Students will be required to respect instructors and follow directions given by instructors.

Course Structure

This is a hands on welding course. All course activities will be done in a classroom setting or in the welding lab. Welding 1 provides the knowledge, skills, and technologies required for employment in metal technology systems. Students will develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success.

Important Note: This syllabus, along with course assignments and due dates, are subject to change.

Topic Schedule

- **Unit 1: Workplace Regulations, Safety & Compliance**
- **Unit 2: Oxy-Fuel Cutting**
- **Unit 3: Shielded Metal Arc Welding**
- **Unit 4: Academic Knowledge and Skills for Manufacturing**
- **Unit 5: Welding Fundamentals**
- **Unit 6: Gas Metal Arc Welding**
- **Unit 7: Flux Core Arc Welding**
- **Unit 8: Plasma Arc Cutting**
- **Unit 9: Gas Tungsten Arc Welding**
- **Unit 10: Employability Skills**
- **Unit 11: Career and Professional Development**

Graded Course Activities

Points	Description
40%	Test
60%	Daily Work
100%	Total Points Possible

Late Work Policy

Be sure to pay close attention to deadlines—there will be no makeup assignments or quizzes, or late work accepted without a serious and compelling reason and instructor approval.

Letter Grade Assignment

Final grades assigned for this course will be based on the percentage of total points earned and are assigned as follows:

Letter Grade	Percentage	Performance
A	90-100%	Excellent Work
B	80-89%	Good Work
C	70-79%	Average Work
D	60-69%	Poor Work
F	0-59%	Failing Work

Course Policies

- Students must wear appropriate clothing and (PPE) Personal Protective Equipment, in order to participate in the welding shop. Following is a list of the requirements:
- Students must furnish industry approved safety glasses.
 - They will need clear safety glasses when welding and while using power tools.
 - They will also need #5 shaded safety glasses when using the hand torch, plasma cutter or performing acetylene welding.
- Students are required to wear a long sleeve welding shirt, typically made of all cotton and designed to be worn while performing industrial cutting and welding activities.
- All students are required to wear long pants while in the welding shop. SHORTS OF ANY KIND WILL NOT BE ACCEPTED OR PERMITTED. All cotton pants such as blue jeans, khaki work pants or (FR) Fire Retardant pants are acceptable attire in the welding shop.
- All students are required to wear leather welding gloves while performing cutting or welding activities in or around the welding shop.
- All students are required to wear leather work boots or leather shoes in the welding shop.

EYE PROTECTION IS #1 on my list of safety requirements in the welding shop for students and adults. Clear safety glasses are to be worn by the student while performing arc welding, MIG welding, TIG welding or Grinding. It is important that students have two forms of eye protection on, which is required by most industries. Safety Glasses/Goggles must meet ANSI Z87+ Standard. Fashion sunglasses will not be allowed

The following are behaviors that I expect from students in my welding classroom, shop and

when attending welding contests and exhibits:

- Attention to instructions and assignments.
- Attention to safety guidelines.
- Respect for Self, Instructors, Administrators, other Students, and Guests.
- Respect for the property of others.

Cell phone use will not be allowed in the classroom or in the welding shop. Cell phones should be in the students backpacks at all times and not in use while attending their assigned welding class. WELDING STUDENTS NEED TO FOCUS AND CONCENTRATE ON THEIR WELDING WORK AND SAFETY PRACTICES IN THE WELDING SHOP AT ALL TIMES. NOTE: Students will discover that most employers WILL NOT ALLOW cell phones in the workplace and students need to be prepared and understand that requirement!

Academic Honesty Policy & Procedures

Academic honesty is a cornerstone of the educational community; therefore, students are expected to understand the standards of academic honesty as they pertain to students' behavior in the classroom.

Plagiarism

It is important for students to acknowledge sources that are used for completing classroom assignments. Plagiarism is a form of academic dishonesty.

Plagiarism may be any one of the following:

1. Verbatim copying without proper documentation of the source(s).
2. Paraphrasing without proper documentation of the source(s).
3. Unacknowledged appropriation of information or ideas from someone else.

If students have any questions about these forms of plagiarism or about an assignment they are preparing, they should ask their instructor for clarification rather than risk unintentional plagiarism.

Cheating

It is important for students to act in an honest and trustworthy manner. Work performed on examinations or other forms of evaluation must represent an individual's own work, knowledge and experience of the subject matter. Students are expected to follow the classroom rules established by the instructor.