



**Course Syllabus and Classroom Procedures**  
**Beaufort-Jasper Academy for Career Excellence**  
**Welding Technology**  
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**Course Description:**

Welding technology is designed to provide students with the skills and knowledge to effectively perform cutting and welding applications used in the construction industry or in advanced manufacturing. Students will develop proficiencies in fundamental safety practices in welding, interpreting drawings, creating computer aided drawings, identifying and using joint designs, efficiently laying out parts for fabrication. This program will provide the students with skills in basic shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux core arc welding (FCAW), gas tungsten arc welding (GTAW), as well as quality control methods.

**General Classroom/Shop Rules:**

1. Always wear protective Safety glasses and clothing – long sleeve shirt, welding jacket, full length jeans (with NO cuffs) either cotton or wool (no sweats.) Serviceable work boots – no gym shoes or sneakers allowed; reinforced toes are recommended. Glasses are always to remain on in the shop
2. Keep your work area clean and safe. ALWAYS clean your booth and surrounding area and have your instructor check it BEFORE you sign out.
3. You will not weld near explosive or flammable materials or on containers for explosive or flammable materials. Clear plastic butane lighters are extremely dangerous; never carry them on your body while welding.
4. Make sure welding area is well ventilated. Turn on exhaust system.
5. Oxygen and acetylene cylinders and fittings should be kept away from oil and grease. Oxygen and petroleum products are very explosive when in contact with each other.
6. Never under any circumstances inhale gasses from gas cylinders. This can result in injury or death.
7. Handle all gas cylinders with extreme care. Cylinders are under high pressure (2000 PSI). Keep all cylinders capped when not in use or when transporting.
8. Keep all welding equipment in good condition, report any malfunction or damage to instructor.
9. Never operate any equipment until you have been properly instructed.
10. Never use cables with frayed or exposed wires, cracked or bare spots on the insulation. If defects are noted, notify instructor for repairs. Do not attempt to repair yourself.

11. You will not weld in a damp or wet area.
12. You will not weld or cut directly on a concrete floor. The heat will cause the floor to explode.
13. Obey all signs applicable to EQUIPMENT or AREAS with which you are working.
14. Handle hot metal with pliers or vise grips, NOT GLOVES.
15. Assume all metal is HOT. Many people are burned by touching what appears to be cold metal.
16. You will not attend welding class intoxicated or be under the influence of alcohol or ANY drugs. You may get hurt or you may hurt someone else.
17. If you are unsure about something, please ask.
18. Always think SAFETY FIRST! No jewelry should be worn during regular class time.
19. Keep all cell phones turned off during regular class times.
20. If you are not willing to do a task the Instructor asks you to do, you will be given no credit for that day.

### **Preparation for Class:**

Steel toe boots  
Note book / Paper  
Pens and pencils

#### **Optional:**

Safety glasses  
Welding helmet  
Welding gloves

### **Expectations for class:**

1. Respect yourself, the teacher & others
2. Put forth your best effort at all times
3. Be prepared for class each day
4. Follow directions when given
5. Pay attention, participate and ask questions
6. Preserve a positive learning environment
7. Take responsibility for your actions

**Accountable**  
**Collaborative**  
**Engaged**

**Consequences:**

We follow school procedures for progressive discipline as outlined in the Beaufort-Jasper Academy for Career Excellence Student Handbook.

**GRADING POLICIES:**

The semester grade is determined by the total points earned in each of the following areas and the number of points corresponds with a letter grade (outlined in the student handbook). The areas of evaluation and their weight toward the grade are as follows:

The grading scale used at ACE is as follows:

**A 100-90      B 89-80      C 79-70      D 69-60      F 59 or Below**  
F=Below 59    WP=Withdrawn Passing    WF=Withdrawn Failing    I=Incomplete

The category grading weights at ACE are set school wide at 60/40 summative/formative.

<b>Summative</b>	60%	The goal for summative assessment is to evaluate student learning at the end of an instructional unit.	Examples include but are not limited to tests, final written pieces projects, presentations, performance tasks, and performances.
<b>Formative</b>	40%	The goal of formative assessment is to monitor student learning to provide ongoing feedback that can be used to improve as needed.	Examples include but are not limited to journals, notebooks, warm-ups, quizzes, and exit slips, daily work, board work, closure activities, quizzes, skills practice, and individual student conferences

**Late Work:**

For excused (Lawful) absences, students will be granted the opportunity to make-up any missed assignments and /or work due to the absence(s). This will include quizzes, test, writing assignments etc. The period for making up the work will be a minimum of one (1) class day for each class day missed to a maximum of one week. For example, if a student misses two days of school (Monday and Tuesday) and returns on Wednesday, then Thursday and Friday will be granted as make-up days for missing Monday and Tuesday (one day for each day missed). In this example, all missed assignments or work (test, quiz etc.) would not be due until Monday. Students who have unexcused absences may be given the opportunity to make up work at the discretion of the principal and teacher during make-up sessions, however, the unexcused absence remains in the student’s record.

**Missed Work:**

It is **the student’s** responsibility to obtain the homework assignments, notes & any other pertinent information that is missed during an absence.

Missed work due to an absence: Additional time (up to five school days) and full credit will be allowed for each day of a verifiable and excused absence. Exceptions will be made in unique, deserving situations as determined by the teacher and/or administrator.

**Report Cards:**

Students will receive four report cards during the year. Performance reports will be given out once every grading period. Academic grades will be assigned based on points earned during the grading period. In addition, students will receive an effort comment for each class.

### Statement for Academic Dishonesty:

Academic honesty is expected in all ACE classes. Cheating will not be tolerated. Consequences may include: reduction in grade on the assignment, repeat the assignment, no grade on assignment or others as deemed appropriate. Academic dishonesty will be reported to a school counselor, administration and a parent will be notified.

### Safety Requirements:

Students need to pass safety test with a Score of 100%.

Students must follow all rules and standards.

PPE must be worn properly at all time.

## ACE EMPLOYABILITY RUBRIC

STUDENT NAME: \_\_\_\_\_ DATES OF ASSESSMENT: \_\_\_\_\_

	10 Points	8 Points	6 Points	4 Points	No Points
<b>Interpersonal Effectiveness</b>	Student always works effectively with others and contributes to the group	Student works effectively with others and contributes to the group	At times, student works effectively with others and contributes to the group	Student rarely works effectively with others and contributes to the group	Student never works effectively with others and contributes to the group
<b>Expectations</b>	Student is always in class on time and always ready to learn	Student is in class on time and often to learn	At times, student is in class on time and sometimes ready to learn	Student is rarely in class on time and is unprepared to learn	Student is never in class on time and not ready to learn
<b>Professionalism</b>	Student is always dressed professionally, follows directions and stays off cell phone	Student is mostly dressed professionally, follows directions and stays off cell phone	At times, student is dressed professionally, follows directions and mainly stays off cell phone	Student is rarely dressed professionally, following directions and/or is on cell phone	Student is never dressed professionally, never follows directions and is always on cell phone
<b>Motivation/Work Ethic</b>	Student has: No Missing Assignments and Actively Participated	Student has: 1 Missing Assignments or Did not Actively Participate one time	Student has: 2 Missing Assignments or Did not Actively Participate twice	Student has: 3 Missing Assignments or Did not Actively Participate 3 times	Student was unengaged all week and did not participate with the class
<b>Communication</b>	Student always speaks clearly and effectively. Student is an active listener	Student speaks clearly and effectively. Student is often an active listener	At times, student speaks clearly and effectively. Student needs to improve as an active listener	Student rarely speaks clearly and effectively. Student is not an active listener	Student never speaks clearly and effectively. Student does not listen

TOTAL POINTS: \_\_\_\_\_ / 50

### Outline of Topics Covered throughout Year: