



Welding with introduction to Plasma
Cam Art A-B (0118 AND 0119)

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Course Description

This class is designed to give students the opportunity to learn shop safety skills and prepare them for more advanced welding classes. Students will have the opportunity to learn to ARC weld “stick”, OXY weld “cutting torch”, and TIG weld “aluminum/stainless”. Students will be able to produce several welding projects over the semester that they may keep. Students will also be able to produce small beginning welding projects using the plasma cam. During the second semester students will be able to use a machine to produce ornamental metal projects such as gates, garden trellises, chandeliers, and wall hangings. Students who pass this class can expect to find employment in the field of welding starting at \$12-\$15 per hour out of high school.

Course Objectives

A. Safety

1. Determine the importance of Agricultural Metal Fabrication Technology
2. Reinforce basic technical skills
3. Identify safety practices
4. Identify laboratory management procedures

B. Welds

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|-----|---|--------------------------|---|
| 2. | 6013 Bead (1F) | Bead (1F) | Welding book Chapter 12,14,25 |
| 3. | 7018 Pad (1F) | Pad (1F) | Welding book Chapter 13,15,16 |
| 4. | Plasma Cam Projects 2 each worth 100pts | | |
| 5. | 7018 Fillet (2F) | Sheet Fillet (2F) | Welding book Chapter 17 |
| 6. | 7018 Lap (2F) | Sheet Lap (2F) | Welding book Chapter 26 |
| 7. | 6010 Lap (2F) | Lap (2F) | Welding book Chapter 35 |
| 8. | 6010 Fillet (2F) | Fillet (2F) | Torch/Plasma Cut Welding Book Chapter 30 |
| 9. | 7018 3pass Fillet (2F) | Fillet 3pass (2F) | Welding book Chapter 31 |
| 10. | 6010 Fillet Pipe (2F) | Fillet (3F)* | Welding book Chapter 29 |
| 11. | 6011 Fillet (3F) | Fillet (4F)* | Welding book Chapter 18 |
| 12. | 6010 Fillet (4F) | Aluminum Fillet (2F)* | Welding book Chapter 19 |
| 13. | 7018 Fillet (4F) | Aluminum Fillet (3F)* | Welding book Chapter 36 |
| 14. | TIG Puddle (1F) | Dual Shield (2F)* | Welding book Chapter 24 |
| 15. | TIG Steel bead (1F) | Spray Transfer (2F)* | Welding book Chapter 33 |
| 16. | TIG Alu bead (1F) | Torch Cut or Braze weld* | Welding book Chapter 5,27 |
| 17. | Week for a Project | Your choice of project | |

Course Units

Quarter 1	Quarter 2	Quarter 3	Quarter 4
A. Safety B Welds 2,3	B. Welds 4,5	B. Welds 6,7	B. Welds 8,9

Materials

Paper and pencil or pen and safety gear

Skyward Grading

Score Method	Term Grades (MHS Policy)	Grading Scale (MHS Policy)
Total Points <i>or</i> Weighted Grades <<replace with weighted percentages>>	Fall Quarter 1=40% Quarter 2=40% End of Course Assessment=20% Spring Quarter 3=40% Quarter 4=40% End of Course Assessment=20%	A=90%-100% B=80%-89% C=70%-79% D=60%-69% F=Below 60%

Make-Up Work (MHS Policy)

Papers, assignments, tests, etc. that were announced while the student was in attendance prior to the absence are due to be submitted or completed on the day the student returns to school. A student will be allowed two (2) school days for each day of excused absence to make up material presented during the absence. Make-up time is not to exceed ten (10) days from the time a student returns to school after an absence. Additional time may be granted at the principal's discretion under extenuating circumstances. When a student has been absent for three (3) or more consecutive school days due to illness or excused absence the parent or student may call the Attendance Office to request make-up homework be sent to the office for pick-up. Please allow 24 hours for teachers to respond before coming to the office to pick up work. **In the case of pre-arranged absences, it is the responsibility of the student to contact individual teachers for any make-up work prior to the absence.**

Late Work

<<No late work accepted>>

Classroom Rules and Procedures

Class Rules

1. ***Come to class on time.*** Standing outside the door and rushing in after the bell has begun to ring will constitute a tardy. You must be INSIDE the door when it begins ringing to be counted on time. Students will be given detention after three tardies.
 2. ***Attend to personal needs before coming to class.*** I have been instructed not to give passes to lockers and to limit passes, so please do not ask for a pass unless you have a true emergency.
 3. ***Remain in your seat unless you have permission to get up .*** Clean up after yourself before you leave class
 4. ***Do not eat candy or other food including drinks in class unless you have been given special permission.***
 5. ***Bring required materials every day unless you are otherwise directed.***
 6. ***Talk only when permitted.*** Be aware of the situation since quiet talking is allowed in some situations and speaking to the entire group without raising your hand may be allowed in others. I will remind you once and expect compliance.
 7. ***Respect the schools property and others.*** Deliberately damaging school property or disrespecting others will not be tolerated.
 8. ***Do not cheat.*** Students caught cheating will receive a zero and a phone call home. Both the student who shares his work for an independent assignment AND the person who copies it will suffer the same consequences. I expect you to do your own work and to be sure no one can copy it.
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Discipline

Refer to the student handbook and you may also be required to sweep the shop.

Academic Integrity (MHS Policy)

All work submitted by a student must represent his/her own ideas, concepts, and current understanding. All material found during research must be correctly documented/cited to avoid plagiarism. Any student caught cheating or plagiarizing on course assignments or exams will lose credit for that assignment or exam. The teacher will notify parents. Students may be subject to disciplinary action, including a parent conference.

Student & Parent Resources

School Website: <http://mhs.msd134.org/>

<<Replace this text with student/parent resources (e.g. Google Classroom, teacher website, etc.)>>

Other Information

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