Agricultural Mechanics and Metal Technologies

Mr. Rudloff

This course will prepare students for a career in the field of Agricultural Mechanics. It is designed for beginning students to Agricultural Mechanics and Metal Fabrication. The course includes planning, designing, and building of agricultural structures, SMAW welding (stick), GMAW welding (mig), and Oxy-Fuel systems.

Six weeks grades will be determined as follows:

**Daily Average: 30%**

**Quiz 10%**

**Major Projects/Exams: 60%**

**100%**

Items that make up **Daily Average** are oral and written assignments, quizzes, warm-ups, skill demonstrations, individual and group projects, and class participation.

**Exams/Projects** will be based on the material that has been covered during that six weeks. The information for these exams and projects will be taken directly from the handouts, notes, lectures, and video clips from that class.

**Appropriate Clothing and proper use of safety equipment is mandatory for this class at all times. Failure or refusal to dress to appropriate shop standards or improper use of safety equipment will be grounds for a student’s failure of the course and/or removal from this class.**

**Course Topics:**

1. Safety
2. Tool Identification
3. Measurements
4. Oxyfuel Processes
5. SMAW Welding (Stick)
6. GMAW Welding (MIG)
7. Plasma Arc Cutting
8. Electrical Wiring
9. Agricultural Construction – Plumbing and Concrete

**Certifications:**

This class serves as a prerequisite to welding certification. Students enrolled in this class will be learning the necessary skills and working towards the completion of industry certifications in AWS D1.1 and D9.1 Welding. These certifications are offered in the advanced level Agricultural Mechanics classes.

**Conference Period: 8th Period 3:15 – 4:15**

**Office Hours: 7:15-7:45 am and 4:15-4:30 pm**

**Contact Information:**

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