

WLD 140/141 GMAW 2016/2017 COURSE SYLLABUS

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TEXT AND SUPPLIES:

Welding Skills 5th Edition, ATP Publishers
1 or 2 inch 3 ring binder – supplied by student
Safety Glasses (First Pair Provided by School)
Order forms for gloves jackets and helmets with price sheet will be provided

DESCRIPTION:

This course covers identification, inspection, and maintenance of GMAW machines; identification, selection and storage of GMAW electrodes; principles of GMAW; and the effects of variables on the GMAW process. Theory and applications of related processes such as FCAW and SAW and metallurgy are also included. Students learn the practical application and manipulative skills of Gas Metal Arc Welding and the proper safety situations needed in this process. Both ferrous and non-ferrous metals will be covered, as well as various joint designs on plate in all positions.

Pre-Requisites: WLD 151/Cutting Process or Consent of Instructor

GOALS:

WLD 140/141 TASK LIST

1. Practice and perform safe shop procedures at all times.
2. Apply the technical math required for employment opportunities in welding.
3. Perform all duties with integrity, responsibility, quality, discipline and teamwork.
4. Use lab equipment and tools.
5. Apply principles of GMAW to weld metals including FCAW .
6. Apply knowledge of the effects of variables of GMAW to weld plate and pipe.
7. Apply knowledge of basic metallurgy to control chemical, physical, and mechanical properties of alloy steels.
8. Identify and select filler materials for GMAW processes.

COURSE REQUIREMENTS:

1. Successfully complete all written assignments/tests
2. Complete all lab projects
3. Abide by all Lab Safety Rules

EVALUATION PROCEDURES:

- | | |
|------------------------------|-----|
| 1. Daily Grade | 50% |
| 2. Performance Tests in Shop | 25% |
| 3. Tests/Quizzes | 25% |

GRADE ASSIGNMENT:

90-100 A 60-69 D
80-89 B 0-59 F
70-79 C

MAKE UP WORK: TESTS, QUIZZES, AND IN-CLASS AND LAB ASSIGNMENTS

- Students can make-up lost lab time from 3:00 PM to 4:00 PM - with pre approval
- Students will have three days to make-up any excused absence and still receive full credit
- Students can be on homebound for no more than two weeks in any welding class, due to the majority of the class being focused on the lab
- Students that become unable to work for any reason must also find alternate means after two weeks

FEEES

- Students will be furnished with one pair of safety glasses at the beginning of the year, if they become lost or broken students must purchase their own.
- Students must purchase their own gloves.
- The school provides welding jackets and helmets for students to share at no cost – All students are encouraged to purchase their own welding supplies if possible.
- Lockers w/locks are provided for personal storage.
- Hearing protection will be provided by the school when needed.
- Students must pay for any lost or damaged books at cost before graduation.
- Field trips may require a fee for registration and transportation.

Classroom and Shop Rules for Welding

1. **No unsafe acts** of any kind will be tolerated in the classroom or shop. Examples are
 - Running
 - Tripping
 - Hitting
 - Throwing
 - Pushing
 - Or any other form of horseplay
2. **No tobacco/electronic smoke devices (e-cigs)** use of any kind.
3. **No food or drinks** allowed in classroom or shop unless authorized by instructor.
4. **No inappropriate** language or jesters.
5. **Students will be** in their seats, quiet, and ready for daily instruction when the tardy bell rings.
6. **Safety glasses** are to be worn at all times in the shop. No exceptions!!!
7. **Cutting goggles** are to be worn at all times in shop when cutting or brazing. No exceptions!!!
8. **Gloves and other PPE** shall be worn in the shop at all times when.
 - Welding
 - Grinding
 - Cutting
 - Or any other activity where needed
9. **Absolutely no shorts, tank-tops, sandals, or flip flops** allowed in the shop. Long hair must be tied back while working in the shop.
10. **Cleaning** is everyone's job! Do your assigned area.
11. **Students must make** 100% on all safety tests.

I will abide by these rules of the shop and classroom.

Student/Date-_____

Parent or Guardian/Date-_____