

ELECTRICAL TECHNOLOGY COURSE SYLLABUS 2008/2009

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Course Description

Electrical Technology is a two-year program teaching students the basics of construction, the use of tools, the fundamentals of electricity, and the basic knowledge of wiring according to the National Electrical Code.

Instructional Philosophy

Students will be taught theory and get practical hands on experience. Safety will be taught first and given the highest priority while working. Students will work individually and as part of a team in the classroom and on lab projects. Assessment methods will include chapter tests, projects, reading evaluations, a notebook, and a daily performance evaluation that grades the students according to; how well they follow the seven class rules, their co-operation with the instructor and classmates, time use and the quality of their work.

Course Goals

- 1) *Academics* - for every student to do well in his/her academic classes including but not limited to government, communications, math and science.
- 2) *Leadership* - every student would not only do his or her own work well, but be able to lead a crew to do a good job also,
- 3) *Job Skills* – each student will have the necessary skills to find and hold an entry level position in the electrical field.
- 4) *Continuing Education* - each student who desires further education will be able to make informed choices about the type and amount of continuing education needed.
- 5) *Safety* - that each student would learn and practice safe work habits.
- 6) *Attitude* - that students maintain a positive attitude in everything that they do.
- 7) *Job Placement* –that we would place as many students as possible in jobs in the Electrical Field.
- 8) *Program Improvement* - that the program would be continually improved and up-dated each year.

Evaluation Criteria

- Attendance
- A daily chart is kept which records each student's behavior, co-operation, time use and quality of work assigned.
- Chapter tests
- Notebook (lab journal, lab projects, class notes, and all handouts)
- Magazine Article Reports

Grading Scale

A portion of the grade is based on attendance, behavior, time use and daily lab performance and a portion is based on written work. These two areas are then averaged together for the nine weeks grade. There is also an exam each semester, which is part of the semester and final grades. The grading scale is in accordance with Trumbull Career & Technical Center school policy.

92 to 100%=A; 83 to 91% =B, 74 to 82%=C; 66 to 73%=D; 0 to 65%=F

Job Shadowing

All students will participate in a Job Shadowing experience during the senior year. They will shadow an employer in the Electrical field. They will be required to make all necessary contacts with an employer to do this. The purpose is to see firsthand what to expect in an actual job situation.

Safety Glasses

Students will be required to wear safety glasses in accordance with TCTC policy when ever they are working with any type of tools, wire and when within arms length of a live circuit.

Program Shirts

The Program Shirts have been designed by students and should be a source of pride. School policy is enforced in the Electricity lab with regard to program shirts; in addition, students will loose points each day that they do not have an "Electrical Tech" program shirt on.

Student Leaders

There will be student leaders in the Electricity Lab who will have certain duties in addition to their regular lab duties. The purpose for this is to find leadership potential and develop it. Each week one person will be the student leader in charge of safety, tours and clean-up. The leader's grade for the week will be based on the performance of that duty.

Lab Improvement

Students will leave the lab in as good as, or better, condition than they found it. Each day a clean-up crew headed by a student leader will do a complete clean up of the lab. Each senior class also has the option of leaving something behind to for future students to see. If students do a class board to put their names on, it should have an electrical theme that includes safety, it should be approved by the instructor and be a tastefully done class project that the class can be proud to leave behind when they graduate.

Lockers

Students will be issued a locker in the Electricity Lab for their tools, books and lab supplies. For security, all lockers will have a combination lock on them at all times. Failure to have a locked locker will result in loss of two points for the day; continued disregard of this policy will result in further discipline.

Notebooks

Each student will keep a notebook. It must be kept in a one and one half inch binder and contain section dividers. The Notebook will be turned in for grading at the end of each nine weeks. The grade will count as a unit test. It will be graded according to content, organization and neatness. Students should not wait until the last minute to update their notebook. The notebook is an ongoing project and to be effective it has to be updated regularly.

Magazine Article Reports

The ability to communicate both written and orally is very important in the electrical field. For that reason students will be required to read articles in current electrical trade magazines and do reports on what they learned from them. The reports will be graded according to content, effort and neatness. Juniors will do two reports each nine weeks. Seniors will do four reports each nine weeks.

Math

Math is a very important subject in the Electrical Field. Most electrical apprenticeships require at least one year of High School Algebra. In our Electrical Theory classes we will study whole numbers, measurements, fractions, decimals, the metric system and construction geometry. We will also study the mathematical relationship between voltage current and resistance, this is called, Ohm's Law.

Class Rules

There are seven basic Rules that are to be followed, in Electrical Technology. Everything will go much smoother if these rules are followed. They are not complicated or hard to follow because they are just common sense. Failure to follow them will result in loss of daily points and eventually school discipline. They are:

1. Follow directions
2. No swearing put downs, teasing ECT.
3. Keep hands, feet, objects to yourself
4. Bring pencil, paper, book each day
5. Safety will be the number one priority in everything we do
6. No talking when the teacher or anyone else is talking
7. When the whole class does a team project (including clean-up) everyone will participate

When a rule is broken the student will be warned and loose points from their daily grade.

When a class rule has been broken three times the student will have a discipline form written up, for "Failure to follow class rules", which will be sent to the Dean of Students.