

# FRED W. EBERLE TECHNICAL CENTER

## COURSE SYLLABUS

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### **Electrical Trades I**

**WVEIS CODE:1756**

**INSTRUCTOR: Robert Lowther**

This course introduces the student to the knowledge base and technical skills of the Electrical Trades industry. Electrical Trades I begins with the NCCER Core curriculum which is a prerequisite to all Level I completions. The students will complete modules in Basic Safety; Introduction to Construction Math; Introduction to Hand Tools; Introduction to Power Tools; Introduction to Construction Drawings; Basic Rigging; Basic Communication Skills; Basic Employability Skills; and Introduction to Materials Handling. Students will then begin developing skill sets related to the fundamentals of Electricity such as Orientation to the Electrical Trade; and Electrical Safety.

### **PREREQUISITES:**

None

### **TEXTBOOKS:**

The course is taught using the NCCER (National Center For Construction Education And Research) curriculum. In addition to NCCER Core, Level 1, and Level 2, the National Electrical Code and electrical formula books are also used.

## **PROGRAM PHILOSOPHY**

Fred Eberle Technical Center bases all decisions with the students' best interest in mind. The philosophy is to develop programs that will encourage each student to achieve at his or her highest level and be prepared to meet the challenges of a changing technological society.

### *Goals:*

1. Set high standards for all students in each program.
2. Provide students the opportunity to learn within safe and well-maintained facilities, in a disciplined, orderly climate, which includes adequate resources for learning.
3. Use business, industry and community leaders to constantly evaluate and update programs.
4. Have students and parents actively involved in the learning process.
5. Provide a well-trained and prepared staff to serve students.
6. Have students complete a challenging and related program of study that prepares them for continued learning in employment and in an educational setting.

## **INSTRUCTIONAL DELIVERY**

Classroom instruction:

As with all programs in the Electrical Technician program at FETC, instruction will be strongly based on the NCCER curriculum. The majority of classroom activities are derived from this.

Lab instruction:

Project based learning is employed to manage the activities in the lab. This includes working in the shop wiring residential, commercial, and industrial circuits.

Work ethics will be a major part of all activities and instruction.

## **GRADING POLICIES**

The following grading scale will be used at Fred Eberle Technical Center.

A = 93 - 100

B = 85 - 92

C = 75 - 84

D = 65 - 74

F = 0 - 64

I = Incomplete

Your grade will be determined as follows

Weekly grade	40%
Written tests	40%
Final exam	20%

\*The weekly grade is based on shop performance, safety, attitude, and attendance.

## **CURRICULUM**

Curriculum used is governed by:

1. Content standards and objectives provide by the WV department of education. Objectives are located at [careertech.k12.wv.us](http://careertech.k12.wv.us)
2. Industry standards. Skill sets are located at [nccer.org](http://nccer.org)
3. West Virginia standards for Educate WV. Standards and goals for Educate WV are located at [careertech.k12.wv.us](http://careertech.k12.wv.us)

## **ATTENDANCE**

Employers list regular attendance as one of the most important behaviors they look for when making a hiring decision. Therefore, we require students to attend classes regularly. Missing 1 class period at the technical center is the same as missing 1/2 day at the high school. Excessive absence may lead to failure and/or dismissal from the Technical Center. In addition, a student who has too many absences will not be awarded a Vocational Diploma.

## **MAKE UP WORK**

Make up work will be assigned following each absence. Students will have a reasonable amount of time as determined by the instructor to complete the work and turn it in. If the work is not completed and turned in on time, the student will receive a zero daily grade for the absence. Make up work is the responsibility of the students.

## **CLASSROOM MANAGEMENT**

### Rules:

1. When buses arrive students are required to go immediately to their shops.
2. Students should enter their shops by the outside door and not through one shop to get to another.
3. Students are to remain in their own shop. The instructor is the only person who may authorize a student to leave his or her shop.
4. Students are not permitted to use or have in their possession, tobacco, alcohol, or any form of controlled substance at any time on school property. Violation of this can result in immediate suspension or expulsion from school.
5. Students are to practice good housekeeping and take pride in the appearance of the building. Littering, sloppiness, damaging property, and etc. will not be tolerated.
6. A student who has 3 tardies will be counted 1 day absent. This absence will be counted as 1 unexcused absence.
7. Students are reminded to be courteous at all times--address their instructor as Mr. or Ms., respect one another, and be polite to visitors. Students are preparing for job entry; they must conduct themselves as young ladies and gentlemen so that we can be proud to recommend them. Employers are only interested in the best.
8. Profanity will not be tolerated in any form at Fred Eberle Technical Center. Profanity includes, but is not limited to; language, gestures, and clothing.
9. Shirts, proper shoes, and other clothing consistent with safety regulations, must be worn at all times. Clothing requirements will vary between shop and classroom, and different classes. The instructor has full authority to establish requirements for his/her class.
10. Any student destroying or stealing property belonging to the school or another individual may be suspended or expelled from the technical center.
11. Students may be allowed a 10-minute break in both morning and afternoon sessions. This break is a *privilege* and not a right. The instructor has full authority over the break period. Students are to visit the snack machine and return to their shop or classroom area. The hallway and parking lot are not break areas.
12. Students are expected to be in their seats when the class session begins and when class is dismissed at the end of the session. The instructor, not the bell, dismisses the class.
13. The telephone is for school business. No one is permitted to use the telephone without permission from the instructor.
14. Use of Cell Phones during class time is prohibited. Failure to follow this rule may result in your cell phone being taken. Repeated offenses will be considered a Level I disciplinary infraction.

15. Students are not permitted to carry knives. All knives will be confiscated and will be returned only to the parent or guardian.
16. Students having in their possession a deadly weapon will be dealt with in accordance to the WV State Board's Safe School Policy
17. Students are to exercise safe practices at all times. "Horseplay" and any other form of unsafe conduct will not be tolerated.

### **DISCIPLINE POLICY**

Discipline is covered in the FETC student handbook.

### **CONTACT INFORMATION**

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