Careerline Tech Center – Electrical/Alternative Energy

Instructor: Tom Medendorp
Phone: 616.738.8950 x4420
Email: tmedendo@oaisd.org

THE ELECTRICAL FIELD
The Electrical/Alternative Energy field involves layout and installation of circuits and wiring as well as troubleshooting and maintenance.

ELECTRICAL AT CAREERLINE TECH CENTER
Students learn electrical theory, blueprint reading, conduit bending, and wiring systems, in addition to understanding conventional and alternative methods of power generation, transmission, and distribution. Students gain experience working on the CTC project house.

MAIN AREAS OF FOCUS
Safety in the Workplace
Basic Electrical Theory
Residential Wiring Methods
Commercial Wiring Methods
Industrial Control Wiring
Power Transmission
Electrical Generation

Learning Environment
Our world depends on electricity each and every day. Understanding how electricity is produced and used is the first step toward understanding how alternative methods of producing electricity will affect our future. In the Electrical/Alternative Energy program, students learn how electricity is transmitted and how alternative methods can be used to produce electricity including: wind, solar, hydro-electric and more. Students also learn electrical installation methods for commercial, industrial, and residential applications. Additionally, students can earn hours toward an apprenticeship while in this program. Jump start a career today by training for the electrical and alternative energy fields of tomorrow.

You will earn elective credit at your high school when you complete this course. You may be eligible to earn 4th year math-related credit, 3rd year science credit, VPAA credit, and credit for an online learning experience, too. See your high school counselor for more information.

YOU MIGHT TAKE THIS CLASS IF YOU
like to work with numbers
are detail-oriented
like to work with your hands
are organized
are mechanically inclined
enjoy working on your feet
are good at problem-solving

JOBS YOU CAN PREPARE FOR
WITH FURTHER EDUCATION
Electrical Contractor
Electrical Engineer
Electrical Estimator
Power Line Worker
Solar PV Installer
Wind Turbine Technician

STUDENT LEADERSHIP
Electrical/Alternative Energy students have the opportunity for leadership, competition, and community service through membership in SkillsUSA.

CERTIFICATIONS
OSHA (Construction)
OSHA (Industrial)
First Aid/CPR/AED

COLLEGE CREDIT
Students have the opportunity to earn college credit while still in high school through early college credit options and articulation agreements.

Direct Credit
Direct credit is actual college credit earned while in a Tech Center program. The credit appears on a college transcript and can be transferred to many colleges/universities throughout Michigan. A significantly reduced tuition is charged for each college class.

Articulated Credit
Articulated credit is credit that a specific college or university grants for classes taken at the Tech Center. Credit is posted to the transcript after the student has completed a certain number of classes. There is no charge for articulated credit and it cannot be transferred from one college to another.

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