

BTEC



Boonslick Technical Education Center



Clean Energy Technology

Mr. Mitchell Hurt, Instructor

1 year program 2 courses

Clean Energy Technology 1 & 2

Courses 1 and 2 expose students to three sources of renewable energy: wind, solar and biofuels. Working with solar, geothermal, chemical and mechanical sources of clean energy teaches students how to apply physics, geography, chemistry, biology, geometry, algebra and engineering fundamentals. Students learn the most efficient and appropriate use of energy production as they explore the relevant relationships among work, power and energy. Students will engage in a wide variety of hands-on projects and lab activities that both test their knowledge and illustrate the interrelationships between the various forms of clean energy. The following projects will be included:

Clean Energy Technology Lab 1

Motors and Generators
Solar Design and Manufacturing
Solar Water Heater
Biodiesel and Sustainability
Wind Turbine and Blade Design
Drip Irrigation

*Projects may not be in this order

Clean Energy Technology Lab 2

Snap-on 504 Multimeter (may be done in course 1)
Nuclear Energy
Bioenergy
Hydrogen Power
Hydroelectric Power
Geothermal (Heat Pump)
Mudwatt

Students will have the opportunity to earn a certificate recognized by the Occupational Safety and Health Administration (OSHA 10). And a certificate recognized by Snap-on on the 504 Multimeter. We will compete each year in SkillsUSA to gage our knowledge against the rest of the state. The Clean Energy Technology Class will meet everyday as a two or three hour block.



BTEC Available Programs

Agriculture
Alternative Energy
Auto Tech
CAD
Computer IT
Advanced Construction
Health Sciences
Marketing
Woodworking
JROTC POTENTIAL PROGRAM—
WAITING
ON CERTIFICATION AND
FUNDING

Industry-recognized

Credentials

Automotive Service Excellence
(ASE)
Certified Nursing Assistant
(CNA)
Comp TIA A+, Comp TIA Network+
Occupational Safety and Health
Administration (OSHA) 10
National Career Readiness
Certificate (NCRC) Work
Keys
Assessment
Compass Testing
Dual Credit Offerings

Questions about Alt. Energy?

Contact Mr. Hurt

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btec