

Alternative Fuels Technology

Description

This program will focus on the primary forms of alternative energy that the transportation industry has developed including compressed natural gas, flex fuel, hybrid electric, electric solar and bio fuel. From propane and CNG, to hybrid-electric and to solar, students will be trained to service the alternatively powered vehicles as well as use the dynamometer to test power output, torque, and emissions and compare performance of each fuel.

- Learn about cleaner, "greener" cars & fuel
- Study the environmental impact, benefits & performance of various energy processes and fuel products
- Explore safety concerns, transportation issues and the feasibility of using alternative fuels

College Credit

College credit may be available through TCC, RSU, or OSU-Institute of Technology. For more details call the college relations office at 918-828-5205. All college credit is awarded by the college/university.

Employment Opportunities

Tulsa Tech's Career Placement Services team builds partnerships with Tulsa area businesses & industry to create opportunities for work-based experiences and job placement. Job search assistance is provided before and after graduation. Services include with employment information, resume building, refining interview skills and life-time access to the Tulsa Tech Job Connect database. Call Career Placement Services at 918-828-5270 or visit www.tulsatech.edu/jobconnect / email jobconnect@tulsatech.edu.

2010-2011 year completion & placement data per Oklahoma Department of Career and Technical Education guidelines:

- Total Enrolled: N/A
- Completion: N/A
- Completed on-time: N/A
- Job Placement: N/A
- Returning Students: N/A
- OPE ID: 005311 / CIP: 47.0604

Career Majors/Courses

Alternative Fuels Technician

Courses

Fundamentals of Automotive Service (NATEF aligned)
 Automotive Electrical/Electronics (NATEF aligned)
 Automotive Engine Performance (NATEF aligned)
 Workforce Staging
 Introduction to Hybrid Technology
 Hybrid Batteries and Battery Service
 Electric Motors, Generators and Controls
 Regenerative Braking
 Hybrid Vehicle Transmissions, Transaxle and Drive lines
 Fuel Cells and Advanced Technologies
 LPG Diagnosis and Repair
 CNG Diagnosis and Repair
 LPG Maintenance
 CNG Maintenance
 LPG Conversion/Installation
 CNG Conversion/Installation

Credential/Industry Certifications

NATEF, CNG/LPG Certification

Application Process

Apply ON-LINE at www.tulsatech.edu/apply. Applications can also be obtained in the counseling offices on any of the campuses; at the Career Services Center located on the Memorial Complex; or by calling 918-828-5200.

Financial Aid

Financial assistance is available through several options at Tulsa Tech. For the most up-to-date information, call 918-828-5280 or visit www.tulsatech.edu. Some career majors are eligible for federal financial aid. To apply, go to: www.fafsa.ed.gov.

Campus Location

Broken Arrow Campus

4000 W. Florence
 (129th East Ave & 111th Street South)
 Broken Arrow, OK 74011-1740
 (918) 828-3000
 FAX (918) 828-3009

Area Salary

For information concerning working conditions, physical requirements, employment and job outlook please refer to the Occupational Outlook Handbook (OOH), 2010-11 Edition at <http://www.bls.gov/oco/>.

Salary information can be found at The Occupational Information Network (O*NET) Resource Center at <http://www.onetonline.org/>. O*NET-SOC Code: 17-3029-10

Who Can Attend?

High school students / Adults

Tuition/Fees/Books

- Tuition: \$1,620*
- Lab & Required Fees: \$145*
- Additional Required Costs: \$1,800**
- Optional Fees: \$253

**High school students living in the Tulsa Tech school district are not charged tuition, fees & books.*

***Additional required costs: books, equipment, tools, uniforms & supplies.*

Scheduling Information

H.S. / 2 school years:

August - May

H.S. sessions:

7:45 - 10:45 A.M. / 11:50 - 2:50 P.M.

Adults / 9 months Adult sessions:

Day or Afternoon depending on experience

NOTE: Adults with previous automotive service experience or Career Tech training in Electricity and Engine Performance will attend half day, afternoons. Adults without experience will attend all day.

Check with Admissions Office at 918-828-5260 for start dates.