

# ALTERNATIVE FUEL VEHICLE TECHNOLOGY, BASIC CERTIFICATE



College(s): KK, OH

Program Code: 0099

The AFVT Program has been designed to prepare students to apply their skills and knowledge to correctly diagnose and repair alternative fuel vehicles such as hybrid power units in accordance with manufacturer’s specifications. The AFVT program will also give emergency response, auto insurance and salvage yard personnel working knowledge to safely perform their tasks when working on or inspecting hybrid fuel vehicles. This program will also prepare automotive technicians and instructors to sit for the Automotive Service Excellence (ASE) Advanced Engine Performance examination.

## Program Requirements

| Code                  | Title                                       | Hours |
|-----------------------|---|-------|
| Required Program Core |   |       |
| AUTOTEC 130           | Topics in Alternative Fuel Technology       | 3     |
| AUTOTEC 230           | Introduction to Alternative Fuel Technology | 4     |
| AUTOTEC 231           | AFT Hybrid Fuel Vehicles                    | 4     |
| AUTOTEC 232           | Hybrid and Fuel Cell Vehicles               | 5     |
| Total Hours           |   | 16    |

## Pathway

This is an **example course sequence** for students interested in earning a Basic Certificate (BC) in Alternative Fuel Vehicle Technology (AFVT). It

does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate.

## Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

| Semester 1  |   | Hours |
|-------------|---|-------|
| AUTOTEC 101 | Intro To Automotive Techn <sup>1</sup>              | 4     |
| AUTOTEC 104 | Electrical Systems & Power Accessories <sup>1</sup> | 4     |
| Hours       |   | 8     |
| Semester 2  |   |       |
| AUTOTEC 105 | Fuel Management I <sup>1</sup>                      | 4     |
| AUTOTEC 204 | Electrical Systems II <sup>1</sup>                  | 4     |
| Hours       |   | 8     |
| Semester 3  |   |       |
| AUTOTEC 205 | Fuel Management II <sup>1</sup>                     | 4     |
| Hours       |   | 4     |
| Semester 4  |   |       |
| AUTOTEC 206 | Fuel Management III <sup>1</sup>                    | 4     |
| Hours       |   | 4     |
| Semester 5  |   |       |
| AUTOTEC 130 | Topics in Alternative Fuel Technology               | 3     |
| AUTOTEC 230 | Introduction to Alternative Fuel Technology         | 4     |
| AUTOTEC 231 | AFT Hybrid Fuel Vehicles                            | 4     |

|             |                               |    |
|-------------|-------------------------------|----|
| AUTOTEC 232 | Hybrid and Fuel Cell Vehicles | 5  |
|             | Hours                         | 16 |
|             | Total Hours                   | 40 |

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Program Prerequisite

Choose your courses with your College Advisor.

## Careers

This program can prepare students for the jobs listed below. Click on each one to learn more, including average earnings, annual job openings, and how much education people in that field have. For additional guidance and resources on career options, current City Colleges students and alumni can contact the Career Services Office (<https://www.ccc.edu/departments/Pages/Career-Services.aspx>).

## Automotive Service Technicians and Mechanics

### Job Description

Diagnose, adjust, repair, or overhaul automotive vehicles.

### Salary Based on Experience Level

Take a look at the average hourly/annual earnings for this career in Cook County

Lightcast earnings figures are based on OES data from the BLS and include base rate, cost of living allowances, guaranteed pay, hazardous-duty pay, incentive pay (including commissions and bonuses), on-call pay, and tips.

#### Annual Wages

|  |          |
|--|----------|
| Entry-Level 10 <sup>th</sup> Percentile  | \$28,775 |
| Median 50 <sup>th</sup> Percentile       | \$46,362 |
| Senior-Level 90 <sup>th</sup> Percentile | \$81,926 |

#### Hourly Wages

|  |      |
|--|------|
| Entry-Level 10 <sup>th</sup> Percentile  | \$14 |
| Median 50 <sup>th</sup> Percentile       | \$22 |
| Senior-Level 90 <sup>th</sup> Percentile | \$39 |

### Annual Job Openings

990 annual openings in Cook County

### National Education Attainment

Here, you can see the level of education that people in this career complete.

| Degree Program                | % of Jobs |
|-------------------------------|-----------|
| A high school diploma or less | 42.60%    |
| A certificate                 | 50.25%    |
| Some college                  | 5.78%     |
| An Associate degree           | 1.37%     |
| A Bachelor's degree           | 0.00%     |

A Master's or Professional degree 0.00%

A Doctoral degree or more 0.00%

0.00% continue their education beyond an associate degree