

## PROGRAMS

### AUTOMOTIVE SYSTEMS TECHNOLOGY - LIGHT-DUTY DIESELS & EMERGING TECHNOLOGIES (C60160LD)

Curriculums in the Mobile Equipment Maintenance and Repair pathway prepare individuals for employment as entry-level transportation service technicians. The program provides an introduction to transportation industry careers and increases student awareness of the diverse technologies associated with this dynamic and challenging field.

Course work may include transportation systems theory, braking systems, climate control, design parameters, drive trains, electrical/electronic systems, engine repair, engine performance, environmental regulations, materials, product finish, safety, steering/suspension, transmission/transaxles, and sustainable transportation, depending on the program major area chosen.

Graduates of this pathway should be prepared to take professional licensure exams, which correspond to certain programs of study, and to enter careers as entry-level technicians in the transportation industry.

**Automotive Systems Technology:** A program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles. Includes instruction in brake systems, electrical systems, engine performance, engine repair, suspension and steering, automatic and manual transmissions and drive trains, and heating and air conditioning systems

Upon completion of this curriculum, students should be prepared to take the ASE exams and be ready for full-time, entry-level employment in dealerships and repair shops in the automotive service industry.

#### Certificate Program

|  |                          | Course Hours Per Week |          | Semester Hours |
|--|--------------------------|-----------------------|----------|----------------|
| First Semester (Fall)                        |                          | Class                 | Lab      | Credit         |
| LDD-112                                      | Intro Light-Duty Diesel  | 2                     | 2        | 3              |
| TRN-110                                      | Intro to Transport Tech  | 1                     | 2        | 2              |
| TRN-120                                      | Basic Transp Electricity | 4                     | 3        | 5              |
| <b>Credit Hours</b>                          |                          | <b>7</b>              | <b>7</b> | <b>10</b>      |
| Second Semester (Spring)                     |                          |                       |          |                |
| AUT-163                                      | Adv Auto Electricity     | 2                     | 3        | 3              |
| LDD-181                                      | Ldd Fuel Systems         | 2                     | 6        | 4              |
| <b>Credit Hours</b>                          |                          | <b>4</b>              | <b>9</b> | <b>7</b>       |
| Total Required Minimum Semester Hours Credit |                          |                       |          | 17             |

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