

**AUTOMOTIVE TECHNOLOGY:**

**Diesel Mechanics Technology**

Career Studies Certificate

**MA**

*Purpose:* This program is designed to introduce the fundamentals of diesel equipment repair and provide instruction in hydraulic systems, diesel engine overhaul and tune-up, electrical circuits, power train maintenance and fuel injection. The curriculum provides practical training and the option of on-the-job experience through cooperative education. Graduates will have a background in basic diesel equipment technology principles. The program prepares graduates for employment in the following areas: diesel equipment repair, diesel truck repair, supervisor, shop foreman, heavy duty repair, purchasing agent, salesperson, power train repair, fuel injection repair, diesel engine repair, automotive diesel repair, and marine diesel repair.

| <b>One Year</b>     |  | <b>Credits</b> |
|---------------------|--|----------------|
| <b>1st Semester</b> |  |                |
| DSL                 | 111 Introduction to Diesel Engine                                | 2              |
| DSL                 | 141 Transportation Electrical Systems I                          | 2              |
| DSL                 | 152 Diesel Power Trains, Chassis, and Suspension                 | 4              |
| ENG                 | 111 College Composition I or<br>ENG 131 Technical Report Writing | 3              |
| SDV                 | Elective   | <u>1</u>       |
|                     | <b>Total</b>   | <b>12</b>      |
| <b>2nd Semester</b> |  |                |
| DSL                 | 123 Diesel Engine Systems I                                      | 2              |
| DSL                 | 143 Diesel Truck Electrical Systems                              | 4              |
| DSL                 | 160 Air Brake Systems  | 3              |
| MEC                 | 161 Basic Fluid Mechanics-Hydraulics and Pneumatics              | <u>4</u>       |
|                     | <b>Total</b>   | <b>13</b>      |

**Total credits for the Diesel Mechanics Technology Career Studies Certificate = 25.**