



**GADSDEN TECHNICAL INSTITUTE  
CONTINUAL EDUCATION  
COVID-19 EMERGENCY LESSONS**

Teacher Name: Mr. G. Moore  
Dates of Instruction: March 30 – April 13, 2020  
Lesson Title: Electrical Systems and Steering and Suspension Technician  
Grade Levels: Post-Secondary Adult  
Subject Area: Diesel Systems Technician 2

**Assignment:** After reading the material on introduction to electrical systems, steering and suspension, the student will be able to: identify causes of HVAC electrical control system problems; determine needed action; inspect and test A/C heater blower motors, resistors, switches, relays, modules, wiring, and protection devices; determine needed action; inspect and test A/C compressor clutch relays, modules, wiring, sensors, switches, diodes, and protection devices; determine needed action; inspect and test A/C related electronic engine control systems; inspect and test engine cooling/condenser fan motors, relays, modules, switches, sensors, wiring, and protection devices; identify and diagnose fixed and driver adjustable steering column and shaft noise, looseness, and binding problems; determine needed action; inspect and service steering shaft u-joint(s), slip joints, bearings, bushings, and seals; phase shaft; check cab mounting and adjust ride height; remove the steering wheel (includes steering wheels equipped with electrical/electronic controls and components).

**Lesson Instructions:**

Week of March 30 – April 3, 2020, read Section 2 (Chapters 18-20).

Week of April 6 – 15, 2020, read sections Section 3 (Chapters 27-38).

**Practice Activities:**

Week of March 30 – April 3, 2020, answer review questions on pages 446, 472 and 490.

Week of April 6 – 15, 2020, answer review questions on pages 713, 742, 768, 793, 830, 864, 904, 949, 975, 1009, 1044 and 1098.

**Instructional Materials:**

Diesel Systems Technician Textbook: *Medium / Heavy Duty Commercial Vehicle Systems*.

**Special Notes from Instructor:**

ALL paper work should be kept in your folder, signed and dated to reflect completion date(s) prior to bringing them to class with you on April 16, 2020. If there are any questions, I can be reached at (850) 875-8324; ext. 5116 or email.

[mooreg@gcpsmail.com](mailto:mooreg@gcpsmail.com).

**Mission Statement**

The mission of Gadsden Technical Institute is to recognize the worth and potential of each student. We are committed to providing opportunities for basic and advanced instruction in a conducive learning environment. The Center encourages academic and technical curiosity, innovation and creativity by integrating applied academic skills in all occupational areas. We strive to instill the attitudes and skills necessary to produce motivated, self-sufficient individuals who are able to function effectively in our ever-changing,