



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

Teacher Name: Mr. James Weeks
Dates of Instruction: April 16 – May 1, 2020
Lesson Title: Engine Repair Technician
(EXTENDED / CONTINUED LESSON)
Grade Levels: 10 – 12; Adult
Subject Area: Automotive Service Technology 1

Assignment: After reading the material on computerized engine controls diagnosis and repair, the student will be able to: remove cylinder head; inspect gasket condition; install cylinder head and gasket; tighten according to manufacturer's specification and procedure; clean and visually inspect a cylinder head for cracks; check gasket surface areas for warpage and surface finish; check passage condition; inspect pushrods, rocker arms, rocker arm pivots and shafts for wear, bending, cracks, looseness, and blocked oil passages (orifices); determine needed action, adjust valves (mechanical or hydraulic lifters); inspect and replace camshaft and drive belt/chain; includes checking drive gear wear and backlash, end play, sprocket and chain wear, overhead cam drive sprocket(s), drive belt(s), belt tension, tensioners, camshaft reluctor ring/tone-wheel, and valve timing components; verify correct camshaft timing.

Lesson Instructions:

Week of April 16 – April 23, 2020, read pages 36 – 59.

Week of April 24 – May 1, 2020, read pages 61 - 84.

Practice Activities:

Week of April 16 – April 23, 2020, answer questions 1 – 40 as they relate to the assigned reading on pages 36 - 59.

Week of April 24 – May 1, 2020, answer questions 41 – 85 as they relate to the assigned reading on pages 61 – 84.

Instructional Materials:

1. Automotive Service Technology Module 1 reading packet
2. Automotive Service Technology Module 1 questions packet

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 May 4, 2020. If there are any questions, I can be reached at (850) 933-1147; or email weeksj@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, complex society.