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Course Syllabus 2017-2018

Auto Tech 1

Students will learn about the great demand for certified auto technicians. Job opportunities in the automotive fields of breaks, steering/ suspension, engine performance, and electrical/ electronics systems will be taught in Auto Tech I. they learn about safety, basic tools, environmental and desirable work habit. Must pass the SP/2 Safety modules 80 or above before working in the shop area. Students must pass the OSHA-10 Training for Certification. Students can also pass the ASE Student Certifications. Students who finish Auto Tech I should have a basic knowledge of the automobile.

They will learn theory in a classroom sitting using workbooks, textbooks, films, qualified speakers from the automobile trade, and the instructor. Students will be required to maintain a class notebook as a major part of their training.

STUDENT REQUIREMENTS IN CLASSROOM

- A. Be in his/her assigned seat, when tardy bell rings.
- B. Learn safety rules and pass a written safety test with a grade of 100%.
- C. Maintain a notebook/folder of handouts, notes, test, and any materials given to them by instructor or speakers.
- D. Do required work in workbook.
- E. Listen to lecture or speakers without disruptions.
- F. Return to class after clean up and remain seated for closing of class
- G. Make up any work or test missed due to absence from class

STUDENT REQUIREMENTS IN SHOP AREA

- A. He/she will follow all safety rules.
- B. All students will be required to wear safety glasses at all times in shop area.
- C. Follow all instructions.
- D. Keep his/her work area clean.
- E. Participate in demonstrations.
- F. Work with others in shop area
- G. All students will participate in cleaning of shop

STUDENT MAJOR WRITTEN ASSIGNMENTS

Report on the changing of the automobile brake system from mechanical to ABS systems.
Report is due at the end of the first semester

Report on the engine performance and how it has change with the use of computers.
Report is due at the end of the second semester.

SIX WEEK GRADE SYSTEM

Major Grades	Percent	“Daily” Grades	Percent
District Assessments/test	10%	Quick Starts/Daily	10%
Students Evaluation	50%	Project/Quiz	30%

Total of Major Assignments	60%	Total of "Daily" Assignments	40%
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Major total and "Daily" total must combine to 100%

Lessons for Auto Tech 1 2017-2018

Students will learn the automobile from it's beginning to the present. They will learn about the great need for Technicians rather than the Mechanics of the past. This will be done in a small group of students through research at Media Center and films.

Students will learn to use service manuals and a computer program to find:

- A. repair procedures
- B. estimate job cost
- C. work orders
- D. diagrams (wiring, vacuum, fuel)
- E. specifications

He/she will learn auto shop and environmental safety through handouts, textbooks, films and lecture. They will be required to make a grade of 100 on a written test before being allowed to work in shop area with any tools or equipment.

Theory will be taught using books, films, parts and demonstrations. They will do hands on repair to automobiles using tools and equipment of the trade. Students will be assessed by written and skills test and are required to make a minimum of a 70 average on test and class work to pass each section.

He/she will learn:

- Basic brake theory, operation, diagnostics and repairs
- Basic steering and suspension theory, operations, diagnostics and repairs
- Basic engine performance theory, operation, diagnostic and repairs
- Basic electrical and electronics theory, operation, diagnostics and repairs

Equipment and tools students will be required to use are:

- Basic hand tools
- Automotive lifts
- Floor jacks and jacks stands
- Electrical and electronics test equipment (test light, volt/ohm meters, scanners, and amp meters)
- Brake lathe
- Rim clamp tire machine and computer tire balancer
- Grinders (mounted, hand held)

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 Periods: 6th & 7th Periods

Course Syllabus 2017-2018
Auto Tech II

Students will learn about the great demand for certified auto technicians. Job opportunities in the automotive fields of breaks, steering/ suspension, engine performance, and electrical/ electronics systems will be taught in Auto Tech II. They will learn about safety, basic tools, environmental and desirable work habit. Students will be required to take the OSHA-10 Safety modules to be certified. Students will take the ASE student test and also the ASE Light-Duty/ Maintenance Test. Students who finish Auto Tech II should have a basic knowledge of the automobile.

They will learn theory in a classroom sitting using workbooks, textbooks, films, qualified speakers from the automobile trade, and the instructor. Students will be required to maintain a class notebook as a major part of their training.

STUDENT REQUIREMENTS IN CLASSROOM

- A. Be in his/her assigned seat, when tardy bell rings.
- B. Learn safety rules and pass Computer SP/2 Safety Course. 80 or above.
- C. Learn about OSHA
- D. (Occupational safety and Health Association) and the EPA (Environmental Protection Agency)
- E. Maintain a notebook/folder of handouts, notes, test, and any materials given to them by instructor or speakers.
- F. Do required work in workbook.
- G. Listen to lecture or speakers without disruptions.
- H. Return to class after clean up and remain seated for closing of class
- I. Make up any work or test missed due to absence from class

STUDENT REQUIREMENTS IN SHOP AREA

- A. He/she will follow all safety rules.
- B. All students will be required to wear safety glasses at all times in shop area.
- C. Follow all instructions.
- D. Keep his/her work area clean.
- E. Participate in demonstrations.
- F. Work with others in shop area
- G. All students will participate in cleaning of shop

STUDENT MAJOR WRITTEN ASSIGNMENTS

Report on the changing of the automobile brake system from mechanical to ABS systems.
 Report is due at the end of the first semester

Report on the engine performance and how it has change with the use of computers.
 Report is due at the end of the second semester.

SIX WEEK GRADE SYSTEM

Major Grades	Percent	“Daily” Grades	Percent
District Assessments/test	10%	Quick Starts/Daily	10%

Students Evaluation	50%	Project/Quiz	30%
Total of Major Assignments	60%	Total of "Daily" Assignments	40%

Major total and "Daily" total must combine to 100%

Lessons for Auto Tech II 2017-2018

Students will learn the automobile from it's beginning to the present. They will learn about the great need for Technicians rather than the Mechanics of the past. This will be done in a small group of students through research at Media Center and films.

Students will learn to use service manuals and a computer program to find:

- A. repair procedures
- B. estimate job cost
- C. work orders
- D. diagrams (wiring, vacuum, fuel)
- E. specifications

He/she will learn auto shop and environmental safety through handouts, textbooks, films and lecture. They will be required to make a grade of 80 or above on SP/2 Safety computer modules before being allowed to work in shop area with any tools or equipment.

Theory will be taught using books, films, parts and demonstrations. They will do hands on repair to automobiles using tools and equipment of the trade. Students will be assessed by written and skills test and are required to make a minimum of a 70 average on test and class work to pass each section.

He/she will learn:

- ABS brake theory, operation, diagnostics and repairs
- Basic steering and suspension theory, operations, diagnostics and repairs
- Basic engine performance theory, operation, diagnostic and repairs
- Basic electrical and electronics theory, operation, diagnostics and repairs

Equipment and tools students will be required to use are:

- Basic hand tools
- Automotive lifts
- Floor jacks and jacks stands
- Electrical and electronics test equipment (test light, volt/ohm meters, scanners, and amp meters)
- Brake lathe
- Rim clamp tire machine and computer tire balancer
- Grinders (mounted, hand held)