

Trenton High School

**2601 Charlton
Trenton, MI. 48180
734-6924530 ext 1307**

Course Name: Introduction to Automotive Technology
Course Number: 218
Course Credit: Elective, VPAA,
School Year: 2015-2016
Instructor: Mr. Bryan Monaco

Course Description: Students will be introduced to the world of car and light truck service and will gain a basic understanding of all the major systems in a modern automobile. The class is a one class period course and will run for two trimesters, which are not always back to back.

Course Objectives: Students will learn about all major shop equipment and how it is used in a safe and effective manner. For example; a student will learn how to put a car on a lift, how to use air powered tools and to operate the tire machine. These, plus many more, skills will be very useful to the student who wishes to continue on to the Auto II and III class in the future.

A safe and productive work environment is very important in the automobile service business so much time is spent familiarizing students with qualities.

At the end of the course the student will know how to operate every piece of equipment in the shop and be able to do basic automobile service, such as oil changes and radiator flushes.

Students will also be introduced to the theory of how various automotive systems work and why/how they fail.

Prerequisites: None.... Only the desire to learn about car/ light truck service and repair is needed to take this class.

Student Competencies: Proper use of the: tire machine, wheel balancer, battery charger/tester, alternator tester, four post lift, two post lift, bench grinder, hand tools, air powered tools, floor jacks/stands coolant flushing machine, and A/C recharge station.

At the end of Auto I students should be able to perform the following repair/service procedures: Oil change, differential/transfer case service, radiator flush, battery replacement or service, automatic/manual transmission fluid service, tire replacement, wheel balancing, A/C recharge. These skills will give the student skills to get a job in the service business, while still in high school, if they so desire.

Required Text: Modern Automotive Technology 8th Edition

References & Other Resources: Various service manuals (paper and electronic), the internet, speakers, and automotive trade publications.

Course Advisory Committee: Zac Winstead Ally, Scott Wright Wright Tool Company, Rick Pacheco Hi-Way Auto, Marty Depowski Raytheon/WCCD, and Kurt Michael Snap On Tools

Class Assignments: One written assignment per week, various workbook assignments, textbook reading, successful operation of automobile service equipment, light automobile repairs.

Final Exam: 75 questions of multiple choice questions similar to those found on the state and ASE mechanics test. Test is worth 10% of class grade.

Class Policies: See attached sheet and Trenton High School handbook. Students from other schools must abide by the rules of Trenton High School.

- 1.) **The Autoshop parking lot is off limits for student parking except for those students who have permission to park there when working on their vehicles.**
- 2.) **Safety Glasses are to be worn at all times when working in the shop, during specified classroom sessions and whenever the instructor deems safety glasses appropriate.**
- 3.) **All Trenton High School rules and policies are in affect ANYWHERE on school property.**
- 4.) **Appropriate shop attire is required; closed toed shoes, hair tied back. Clothing will get dirty.**
- 5.) **All liquid spills will be cleaned up right away.**
- 6.) **No equipment will be operated in a way that is dangerous or in a reckless fashion. Do not remove safety guards from equipment and never operate a piece of equipment if you have not had training on the safe operation of said equipment.**
- 7.) **Compressed air will not be directed at oneself or at others.**
- 8.) **All vehicle fluids will be recycled or disposed of in a proper manner; do not pour fluids down the drains.**
- 9.) **Tools will be used safely and for the job they are designed for. Please return tools to the tool crib clean. Report a damaged tool to the instructor.**
- 10.) **Students are required to know the location of the safety equipment in the shop and classroom, including the location of the exits, the fire extinguishers, safety blankets, eye wash station and first aid kit.**
- 11.) **Malicious destruction of school or private property will not be tolerated.**
- 12.) **NO tobacco use and NO electronic smoking is allowed in the classroom, shop, or anywhere on school property**
- 13.) **NO fighting**
- 14.) **No derogatory language**
- 15.) **Theft will not be tolerated.**
- 16.) **Disrespect to the teacher and or other school personnel will not be tolerated, nor will disrespectful acts towards other students.**

Evaluation & Grading: Graded assignments will be added to the electronic grade book on a weekly basis. Student grades can be viewed on Parent Connect. Students will be graded on safety practices, their completion of assignments and hands on shop work.

92%-100% = A
90%-92% = A-
87%-89% = B+
82%-86% = B
80%-81% = B-
78%-79% = C+
72%-77% = C
70%-71% = C-
68%-69% = D+
62%-67% = D
60%-61% = D-
0%-59% = E

Articulation Agreements:

Students who complete Auto I, II, and III may earn college credit at Henry Ford Community College, University of Northwest Ohio, Wayne County Community College and all secondary schools with a NATEF certified automotive technology program. Please see your Mr. Monaco for details or visit www.natef.org to see the long list of NATEF certified colleges and universities.

Contact Information:

I periodically send out emails to let you know what is going on in our class or send out reminders to parents and students. If your information changes, please feel free to contact me or send it in with your student.

Thank you for your assistance.

Student Name : _____

Course Title: _____

Parent / Guardian Name(s):

Best parent phone number(s) to call:

Parent email address(es):

Student cell phone number (if available): _____

Ok to text

Student email address (if available):

I, _____, have read and understand the **Course Syllabus and Course**
(student name)

Policies and Expectations for my DCTC Career Technical Education course. I understand that it is expected that I follow all class and school policies. If I do not follow these policies, I will be held accountable for my actions.

Student Signature

Date

Parent Signature

Date