

Western Montgomery Career and Technology Center  
Automotive Technology (47.0604)  
Syllabus



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**Course Objective:** Given the Pennsylvania Program of Study students will prepare for an entry level position as an apprentice Technician or to continue their education at a post-secondary training institution.

**Reference Material:**

- Various Handouts
- Goodheart and Wilcox – Text Book
- Goodheart and Wilcox – Work Book
- Todays Class – Training Software
- Alldata – Informational Software
- SP2 – Training Software
- Socrative – Educational Software
- Google – Productive Software
- Kahoot – Educational Software

**Supplies:**

The student will be required to bring their own supplies every day to class. Students not prepared for class will be given a zero for the day.

- Proper PPE.
- Notebook with dividers for theory, shop work, and notes.
- One pen, two pencils, highlighter, and colored pencils.
- Reference material.
- ID tags

**Grading:**

Grades will be earned on a total point basis with a percentage breakdown as follows:

100%-93% = A

92% - 86% = B

85% - 77% = C

76% - 70% = D

69% and Below = F

Points will be earned in the following areas.

Attitude 20%

Knowledge 30%

Skill 50%

- It is suggested that a lab, lecture notebook be kept. They may be used for lecture final exams.
- Regular attendance is important. Unexcused absences will result in missed labs, lectures and possibly an incomplete for the class.
- Your attitude, skill, and knowledge are derived from many different factors. It is important that you willingly participate in class.
- Approximately 75% of your grade is based on completion of tasks, attitude, and participation. The remaining 25% is based on your capable skills.

**Class/Lab Rules:**

- During lecture or theory students will not interrupt each other or the instructor.
- Students will start class on time with all required supplies.
- Students need prior authorization from the instructor before starting any lab work.
- Students will have proper PPE when in the lab area.
- Students are responsible for all the equipment, tools, and supplies they will use.
- Students need to obtain the instructors permission before using any equipment.

**Course Outline:**

<b>Unit</b>	<b>Assessment</b>	<b>Duration</b>
<p><b>Level 1</b></p> <ul style="list-style-type: none"> <li>• Orientation</li> <li>• Safety</li> <li>• Tools and Fasteners</li> <li>• Brakes</li> <li>• Steering and Suspension</li> </ul>	<ul style="list-style-type: none"> <li>• Various written tests (Knowledge)</li> <li>• Various on-line tests (Knowledge)</li> <li>• Various Written and individual performance tests using a rubric (Knowledge and Skill)</li> <li>• Written, Parts ID, and Performance tests (Knowledge and Skill)</li> <li>• Written, Parts ID, and Performance tests (Knowledge and Skill)</li> </ul>	<p>2 Weeks</p> <p>2 Weeks</p> <p>2 Weeks</p> <p>15 Weeks</p> <p>15 Weeks</p>
<p><b>Level 2</b></p> <ul style="list-style-type: none"> <li>• Safety (Prerequisite)</li> <li>• Electrical</li> <li>• Engine Repair</li> <li>• Engine Electrical (Performance)</li> </ul>	<ul style="list-style-type: none"> <li>• Complete all online quizzes and tests under SP2 Mechanical Safety and Pollution</li> <li>• Written, Parts ID, and Performance tests (Knowledge and Skill)</li> <li>• Performance Test, Project Based Learning, Parts ID, and Written Exams (Knowledge and Skills)</li> <li>• Written, Parts ID, and Performance tests (Knowledge and Skills)</li> </ul>	<p>Completed prior to the start of the school year</p> <p>12 Weeks</p> <p>12 Weeks</p> <p>12 Weeks</p>
<p><b>Level 3</b></p> <ul style="list-style-type: none"> <li>• Safety (Prerequisite)</li> </ul>	<ul style="list-style-type: none"> <li>• Complete all online quizzes and tests under SP2 Mechanical Safety and Pollution</li> </ul>	<p>Completed prior to the start of the school year</p>

<ul style="list-style-type: none"> <li>● Automatic Transmission</li> <li>● Manual Transmission</li> <li>● HVAC</li> <li>● Pennsylvania State Inspection and Emissions</li> </ul>	<ul style="list-style-type: none"> <li>● Written, Parts ID, and Performance Tests (Knowledge and Skills)</li> <li>● Written, Parts ID, and Performance Tests (Knowledge and Skills)</li> <li>● Written, Parts ID, and Performance Tests (Knowledge and Skills)</li> <li>● Written and Performance Tests (Knowledge and Skills)</li> </ul>	<p>8 weeks</p> <p>8 weeks</p> <p>8 weeks</p> <p>8 weeks</p>
<p><b>Level 4</b></p> <ul style="list-style-type: none"> <li>● Manufacturers/Global</li> <li>● SEMA/APEX</li> <li>● Competitive</li> </ul>	<ul style="list-style-type: none"> <li>● Sponsor evaluation, and Written Test (Knowledge and Skills)</li> <li>● Performance, written Tests. (Knowledge and Skills)</li> <li>● Written, Parts ID, and Performance Tests (Knowledge and Skills)</li> </ul>	<p>1 year</p> <p>1 Year</p> <p>1 Year</p>

- \* Students will choose one of the three classes from Level 4.
- \* **Final Exams:** Will be announced prior to testing to allow proper preparation.
- \* This document is subject to change based on the needs of the students