



## Automotive Maintenance and Light Repair (MLR)

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### Lab and Classroom Content:

- This year long course (36 week) is the first of a two-year program that prepares students for an entry level position in the Automotive Industry.
- The Maintenance and Light Repair class emphasizes the following basic principles:
  - Automotive Workshop and Employability Skills
  - General Service
  - Tire Service and Vehicle Alignment
  - Steering, Restraint, and Suspension System Service
  - Engine Repair and Cooling System Service
  - Driveline Systems and Service
  - Engine Performance Support Systems and Service
  - Heating, Ventilation, and Air-Conditioning (HVAC) Systems and Service
- Instructional delivery will focus on hands on learning and career and employability skill development using Michigan Department of Education Career and Technical standards for Automotive Technician (ASE Certified) (47.0604) standards.
- The Maintenance and Light Repair class standards (Competency Areas) are:
  - Foundational and Workplace skills (18 weeks) (PCC: A)
  - I. A-D Engine Repair (6 weeks) (PCC: E)
  - II. A-C Automatic Transmission and Transaxle (3 weeks) (PCC: F)
  - III. A-F Manual Drive Train and Axles (3 weeks) (PCC: F)
  - IV. A-F Suspension and Steering (9 weeks) (PCC:C)
  - VII. A-E Heating, Ventilation, and Air Conditioning (3 weeks) (PCC: F)
  - VIII. A-E Engine Performance (3 weeks) (PCC: E)

### Resources:

- Textbook: Goodheart-Willcox, Maintenance and Light Repair Technician, Copyright 2023
- G-W Ignite online textbook, testing, and material access: [ignite.g-w.com](http://ignite.g-w.com)
- Automotive service manuals: [prodemand.com](http://prodemand.com)
- Class testing and material access: [moodle.kentisd.net](http://moodle.kentisd.net)
- KCTC PowerSchool: [powerschool.kentisd.org](http://powerschool.kentisd.org)
- KCTC website: [thetechcenter.org](http://thetechcenter.org)
- Ford ACE training: [highschool.fordservicetraining.com](http://highschool.fordservicetraining.com)
- General Motors training: [acdelcotraining.com](http://acdelcotraining.com)

#### Work-Based Learning:

Students will explore careers and have multiple opportunities to connect their educational decisions to career options. Career awareness, exploration, preparation, and training may include field trips, guest speakers, job shadows, externships, internships, and job placements as part of this course.

#### Student Leadership Opportunities:

- Classroom leadership opportunities will be provided throughout the school year.
- Students have the opportunity to participate in Skills USA, and MATA Student Competitions.
  - Students will need an instructor's recommendation to participate.

#### Classroom Expectations:

- You are expected to attend class every day that their home schools are in session.
- You are expected to be prepared with all necessary materials, and a mindset to learn.
- You are expected to be productive all period. Refrain from off task activities and avoid being distracted by your personal electronics. (phones will only be allowed during instructor approved activities)
- You are expected to be respectful of yourself, other students, your teacher, and classroom materials. All students have the right to learn in a safe environment.
- You are expected to be responsible for your behavior and your belongings.
- You are expected to be ethical by doing the right thing, even when no one is looking.
- You are expected to meet deadlines (as you will when you are a college student, employee, and citizen). Extensions are only granted for extenuating circumstances at the discretion of the teacher

#### How you earn your grade:

- Grades are earned by completing tasks, online assignments, quizzes, and tests, as well as, demonstrating Going PRO skills daily. Self-motivation, time management, and collaboration with peers is a must to be successful.
- Going PRO Skills: These skills are also referred to as soft skills and/or employability skills and are traits that are looked upon favorably by an employer (Professionalism, Respect, Ownership)
- Semester grade: 30% Hands-on assignments, 30% Tests, 30% Going PRO, 10% Quizzes
- Final course grade: 100% 1<sup>st</sup> + 2<sup>nd</sup> semester grades.

#### Credentials/Certifications:

Students can earn multiple certifications in this course that are industry recognized, making one marketable and valuable to employers. The Michigan Department of Education and some employers recognize the following credentials, offered at the end of this class.

- ASE Maintenance and Light Repair (G1) Entry-level certification
- ASE Engine Repair (A1) Entry-level certification
- ASE Suspension and Steering (A4) Entry-level certification
- ASE Engine Repair (A1) Entry-level certification
- State of Michigan Mechanic Certification – Front End, Suspension and Steering Systems
- State of Michigan Mechanic Certification – Engine Repair.

#### Technology:

Please, treat all technology with the utmost of care and use for school appropriate purposes only. Failure to do so will warrant prompt disciplinary action, revoked usage privileges, and the possibility of owing replacement costs.

- Do not share your user ID or passwords.
- Cell phone usage is permitted with teacher prior consent
- No food or drink allowed at or near the workstations.
- No video or audio recording allowed in class without prior approval. This includes Google Meets

- and any remote online situations.
- The district's Acceptable Use Policy should be read carefully and followed.

**College Credit/Articulation:**

Upon successful completion (B or better) of the two-year program, referral of the teacher, and any other requirements from the institution, students may earn college credit/articulation. Several local and statewide agreements apply.

**Returning Students:**

**Students interested in returning for a second year of automotive training must maintain a "C" average in both semesters of their first year. Allowance may be made for extenuating circumstances through an appeals form submitted to the automotive instructors. The appeals process will last no longer than 5 school days.**