

# Automotive Maintenance Class

## Merit Badge Rally

### October 16, 2021



**WELCOME:** Please read all the information below. This information will help you get prepared for your class and be successful in earning your Automotive Maintenance Merit Badge.

**SCOUTS:** Must be 14 years or older for this class

**AUTOMOTIVE MAINTENANCE WORKBOOK:** Automotive Maintenance pre-requirements are listed below. Here is the link to the workbook <http://usscouts.org/mb/worksheets/Automotive-Maintenance.pdf>

**AUTOMOTIVE MAINTENANCE MERIT BADGE PAMPHLET:** If you need a copy of the pamphlet you can ...

1. Ask your Scoutmaster if they have one in their Library
2. Check your local Council store
3. Purchase a digital download at <https://www.scoutshop.org/>.

**NOTE:** There is **no Zoom session prior** to your class on October 16<sup>th</sup>.

- However, you are expected to do the pre-requisites which are listed below. The idea is that when everyone meets on October 16<sup>th</sup>, if all pre-requisites have been completed, then you will have earned this merit badge.
- Your instructor will be keeping track of what everyone completes on a requirements sheet. That sheet is turned into Gamehaven, and blue cards are sent out via email to the main contact on the registration.

**TIME:** All Scouts must check in at the admin building to get your Merit Badge Packet and information on where the class is held in the Cub Scout area of Gamehaven Scout Reservation.

**MB COUNSELOR:** Counselor for Automotive Maintenance Merit Badge is Mr. Ron Heim  
<mailto:owataron@charter.net>

**AUTOMOTIVE MAINTENANCE PRE-REQUISITES:** **Need to complete prior to class on October 16<sup>th</sup>.**

- **Requirement 11-**
  - b. Choose a car cleaner and wax product for a vehicle you want to clean. Explain clear-coat paint and the precautions necessary for care. Clean the vehicle, both inside and out, and wax the exterior. Use a vinyl and rubber protectant (on vinyl tops, rubber door seals, sidewalls, etc) and explain the importance of this protectant. **(You need to do before and after pictures of this process and bring to class)**
- **Requirement 12-** Find out about three career opportunities in the automotive industry. Pick one and find out the educations, training, and experience required for this profession. Discuss this with your counselor, and explain why this profession might interest you.

**REQUIREMENTS:** Please be prepared to discuss the following at class. You can download the worksheet to your computer. Many of these requirements will be demonstrated in class.

- **Requirement 1.** – Do the following
  - a. Explain to your counselor the hazards you are most likely to encounter during automotive maintenance activities, and what you should do to anticipate, help, prevent, mitigate or lessen these hazards.
  - b. Discuss with your counselor the safety equipment, tools, and clothing used while checking or repairing a motor vehicle.
- **Requirement 2a – 2i- General Maintenance, safety and registration** - Will be done in class
- **Requirement 3a- 3b - Dashboard –**
- **Requirement 4a- 4e – Tires**
- **Requirement 5a-c – Engine**
- **Requirement 6a-6b – Cooling system**
- **Requirement 7a-7b- Fuel System**
- **Requirement 8a-8d – Ignition and electrical systems**
- **Requirement 9a-9e – Drive Train**
- **Requirement 10a-10c- Brake System**

**Helpful Organizations and websites:**

- Cars.com - [www.cars.com](http://www.cars.com)
- Kelley Blue Book - <http://www.kbb.com>
- NADA Guides - <http://www.nadaguides.com>
- National Institute for Automotive Service Excellence - <http://www.ase.com>