

# Automotive Maintenance

Requirements revised: 2017  
Worksheet updated: March 2017

It is important to read the merit badge book and to do all the requirements for the merit badge. The merit badge worksheet is a good tool, to help ensure that you accomplish all the requirements.

Please bring the merit badge book, merit badge card, worksheet, and all your work with you to Merit Badge Day.

## **Remember the Scout Motto and BE PREPARED**

11. Do TWO of the following:
  - a. Determine the value of three different vehicles you are interested in purchasing. One must be new and one must be used; the third vehicle can be new or used. For each vehicle, find out the requirements and cost of automobile insurance to include basic liability and options for collision, comprehensive, towing, and rental car. Using the three vehicles you chose and with your merit badge counselor's assistance, complete the operation/maintenance chart provided in the merit badge pamphlet. Use this information to determine the operating cost per mile for each vehicle, and discuss what you learn with your counselor.
  - 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 the protectant.
  - c. Locate the manufacturer's jack Use the jack to demonstrate how to engage the jack correctly on the vehicle, then change a tire correctly.
  - d. Perform an oil filter and oil change on a vehicle. Explain how to properly dispose of the used oil and filter.
  
12. Find out about three career opportunities in the automotive industry. Pick one and find out about the education, training, and experience required for this profession. Discuss this with your counselor, and explain why this profession might interest you.