

## Farm Mechanics Merit Badge Pre-work

### Pre-work Requirements:

**1b.** Draw a plan showing a well-equipped farm shop. Point out the shop's mandatory safety devices and features. Some useful links:

[http://extension.missouri.edu/webster/documents/presentations/2015-02-26\\_BuildingFromGroundUp/2015-03-03\\_Planning\\_Farm\\_Shops-BobSchultheis-screen.pdf](http://extension.missouri.edu/webster/documents/presentations/2015-02-26_BuildingFromGroundUp/2015-03-03_Planning_Farm_Shops-BobSchultheis-screen.pdf)

[http://www.agriculture.com/machinery/farm-shop/shake-up-your-farm-shop\\_240-ar26431](http://www.agriculture.com/machinery/farm-shop/shake-up-your-farm-shop_240-ar26431)

**Note: This needs to be a neat, thorough drawing to scale, not a simple sketch!**

**1d.** Describe what a material safety data sheet (MSDS) is and tell why it is used. Obtain the MSDS for any engine coolant, oil, grease, fuel, hydraulic or transmission fluid, or other flammable or hazardous materials you use in meeting the requirements for this merit badge. Bring an MSDS for one of the above materials with you to discuss.

<http://www.ilpi.com/msds/faq/parta.html>

**3d.** Using a hand file, correctly dress a screwdriver tip.

<http://www.secondchancegarage.com/public/233.cfm>

[http://mymilescity.com/diy-maintenance-repair/screw\\_driver\\_repair.html](http://mymilescity.com/diy-maintenance-repair/screw_driver_repair.html)

\*\*\* Bring the repaired screwdriver with a before close-up of the tip. \*\*\*

**7.** Find out about three career opportunities in farm mechanics.

Pick one and find out the education, training, and experience required for this profession. Discuss this with your counselor, and explain why this profession might interest you. Here is one useful link:

[http://study.com/articles/Ag\\_Mechanics\\_Career\\_Options\\_and\\_Requirements.html](http://study.com/articles/Ag_Mechanics_Career_Options_and_Requirements.html)