BOY SCOUTS OF AMERICA
MERIT BADGE SERIES

PLUMBING

“Enhancing our youths’ competitive edge through merit badges”
Requirements

1. Do the following:
   a. Describe how a properly working plumbing system protects your family’s health and safety.
   b. List five important local health regulations related to plumbing and tell how they protect health and safety.
   c. Describe the safety precautions you must take when making home plumbing repairs.

2. Do the following:
   a. Make a drawing and explain how a home hot- and cold-water supply system works. Tell how you would make it safe from freezing.
   b. Make a drawing and explain the drainage system of the plumbing in a house. Show and explain the use of drains and vents.

3. Show how to use five important plumber’s tools.

4. Identify and describe the use of each of the following: washer, retaining nut, plunger (rubber force cup), solder, flux, elbow, tee, nipple, coupling, plug, union, trap, drainpipe, and water meter.

5. Name the kinds of pipe that are used most often in a plumbing system. Explain why these pipes are used.

6. Cut, thread, and connect two pieces of steel pipe.
7. Under the supervision of a knowledgeable adult, solder three copper tube connections using a gas torch. Include one tee, two straight pieces, and one coupling.

8. Do the following:
   a. Replace a washer in a faucet.
   b. Clean out a sink or lavatory trap.
Plumbing Resources

Scouting Literature

Home Repairs and Public Health merit badge pamphlets

Visit the Boy Scouts of America’s official retail website at http://www.scoutstuff.org for a complete listing of all helpful Scouting materials and supplies.

Books


Organizations and Websites

American Society of Plumbing Engineers
Website: http://www.aspe.org

International Association of Plumbing and Mechanical Officials
Website: http://www.iapmo.org

Mechanical Contractors Association of America
Website: http://www.mcaa.org

Plumbing–Heating–Cooling Contractors Association
Website: http://www.phccweb.org

United Association
Union of Plumbers, Fitters, Welders, and HVAC Service Techs
Website: http://www.ua.org

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