

PLUMBING MERIT BADGE WORKBOOK

This Scoutmaster Bucky Merit Badge Workbook is based off the current *Scouts BSA Requirements*.

Consider also using the Plumbing merit badge class preparation page for clarification and expectations when participating in a Scoutmaster Bucky merit badge opportunity ([online](#) or [in-person](#)).

<https://scoutmasterbucky.com/merit-badges/plumbing/>

Scout's
Name:

REQUIREMENT 1: Do the following:

REQUIREMENT 1 A: Describe how a properly working plumbing system protects your family's health and safety.

REQUIREMENT 1 B: List five important local health regulations related to plumbing and tell how they protect health and safety.

REQUIREMENT 1 C: Describe the safety precautions you must take when making home plumbing repairs.

REQUIREMENT 2: Do the following:

REQUIREMENT 2 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.

REQUIREMENT 2 B: Make a drawing and explain the drainage system of the plumbing in a house. Show and explain the use of drains and vents.

Blank area for drawing and explanation of the drainage system.

Blank area for drawing and explanation of the drainage system.

REQUIREMENT 3: Show how to use five important plumber's tools.

First tool

Second tool

Third tool

Fourth tool

Fifth tool

REQUIREMENT 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.

Washer

Blank area for identifying and describing the use of a washer.

Retaining nut

Plunger (rubber force cap)

Solder

Flux

Elbow

Tee

Nipple

Coupling

Plug

Union

Trap

Drainpipe

Water meter

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

REQUIREMENT 6: Cut, thread, and connect two pieces of metal pipe.

Completed

REQUIREMENT 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.

Completed

REQUIREMENT 8: Do the following:

REQUIREMENT 8 A: Replace a washer in a faucet.

Completed

REQUIREMENT 8 B: Clean out a sink or lavatory trap.

Completed