

# AUTOMOTIVE MAINTENANCE

SAINTS GLOBAL MEMBER

NAME: \_\_\_\_\_ BATTALION: \_\_\_\_\_ TROOP: \_\_\_\_\_

SKILL BADGE ADVISOR

NAME: \_\_\_\_\_ EMAIL: \_\_\_\_\_ PHONE: \_\_\_\_\_

## STEP 1 | DISCOVER

INITIALS

- a) Explain the most likely hazards in automotive maintenance and demonstrate the safety practices that prevent injury or damage. \_\_\_\_\_
- b) Using a vehicle owner’s manual, explain the maintenance schedule, key warning indicators, and the purpose/limits of seatbelts and passive restraints. \_\_\_\_\_
- c) Explain the basics of vehicle registration and inspections in your state (safety/emissions as applicable), and summarize why compliance matters. \_\_\_\_\_
- d) Explain different motor types you may encounter (gasoline, diesel, hybrid, electric) and describe safety boundaries for high-voltage systems. \_\_\_\_\_

## STEP 2 | PLAN

INITIALS

- a) Assemble an automotive maintenance kit and explain when each item is used for safety, inspection, or roadside readiness. \_\_\_\_\_
  - a.1) Identify PPE (eye protection, gloves) and where it is used \_\_\_\_\_
  - a.2) Identify basic hand tools (screwdriver, pliers, socket/wrench) \_\_\_\_\_
  - a.3) Identify roadside items (tire gauge, flashlight, reflective triangles, first aid kit) \_\_\_\_\_
  - a.4) Explain why the owner’s manual belongs in the kit \_\_\_\_\_

- b) Plan a preventive maintenance checklist for a specific vehicle using the owner’s manual, prioritizing safety-critical items. \_\_\_\_\_

**STEP 3 | ACT**

INITIALS

- a) Perform a full under-hood fluid and battery inspection on a vehicle and explain what each fluid does and what ‘too low’ could cause. \_\_\_\_\_

- a.1) Check engine oil level and interpret the result \_\_\_\_\_

- a.2) Check coolant level safely (cool engine) and identify correct coolant type from the manual \_\_\_\_\_

- a.3) Check brake fluid, power steering (if applicable), washer fluid, and transmission fluid (if accessible per manual) \_\_\_\_\_

- a.4) Inspect battery condition/terminals and explain safe handling \_\_\_\_\_

- b) Inspect belts, hoses, filters, and lights, then report findings with a simple recommendation list. \_\_\_\_\_

- b.1) Check belts and hoses for cracks, fraying, leaks, or loose fit \_\_\_\_\_

- b.2) Locate and check air filter(s) (engine/cabin if applicable) \_\_\_\_\_

- b.3) Test interior and exterior lights and identify any failures \_\_\_\_\_

- b.4) Explain one maintenance recommendation based on what you found \_\_\_\_\_

- c) Locate the fuse box(es), identify fuse types/sizes, and safely replace a fuse using the correct method (simulation or real burned-out fuse). \_\_\_\_\_

- c.1) Use the manual diagram to locate fuse panels \_\_\_\_\_

- c.2) Identify the correct fuse by label/position \_\_\_\_\_

- c.3) Explain why the amperage rating must match \_\_\_\_\_

- c.4) Demonstrate safe replacement procedure \_\_\_\_\_

- d) Perform a tire safety inspection, including pressure, tread, spare readiness, and disposal awareness, and explain alignment concepts at a high level. \_\_\_\_\_
  - d.1) Find vehicle tire pressure spec (door jamb/manual) and inflate to spec \_\_\_\_\_
  - d.2) Check spare tire readiness and required tools \_\_\_\_\_
  - d.3) Explain tread wear indicators and why alignment matters \_\_\_\_\_
  - d.4) Explain legal disposal options for old tires locally \_\_\_\_\_
  
- e) Demonstrate safe roadside readiness by performing one of the following, under adult supervision: (A) safe jumper-cable connection OR (B) correct jack placement and a tire change. \_\_\_\_\_
  - e.1) Explain the safety checks before starting (parking brake, stable ground, hazards) \_\_\_\_\_
  - e.2) Perform the chosen procedure safely and in correct order \_\_\_\_\_
  - e.3) Explain what could go wrong and how you prevented it \_\_\_\_\_
  
- f) Explain how brakes work (including ABS) and perform a basic brake condition check with a recommendation for next steps. \_\_\_\_\_
  - f.1) Explain disc vs drum at a high level \_\_\_\_\_
  - f.2) Identify symptoms of brake problems (feel, sound, warning light) \_\_\_\_\_
  - f.3) Perform a visual check where accessible (fluid level, visible pad/rotor if possible) \_\_\_\_\_
  - f.4) Make a safe recommendation (monitor, service soon, stop driving and inspect) \_\_\_\_\_

## STEP 4 | REFLECT

INITIALS

- a) Explain how preventative maintenance reflects stewardship—of safety, money, and responsibility to others on the road—and identify one habit you will keep when caring for vehicles. \_\_\_\_\_
  
- b) Identify one career pathway in the automotive industry and describe what training, tools, and character strengths it requires. \_\_\_\_\_

*Continue to next page for certification signature*

**END OF REQUIREMENTS**

**BY SIGNING BELOW, I CERTIFY TO THE BEST OF MY KNOWLEDGE THAT ALL REQUIREMENTS WERE MET AT OR ABOVE THE REQUIRED STANDARDS AS OUTLINED IN THE BADGE REQUIREMENTS CHECKLIST.**

\_\_\_\_\_  
SKILL BADGE ADVISOR

\_\_\_\_\_  
DATE (YYYY-MM-DD)