

AUTOMOTIVE MAINTENANCE - LEADER KEY

SAINTS GLOBAL MEMBER

NAME: _____

BATTALION: _____

TROOP: _____

SKILL BADGE ADVISOR

NAME: _____

EMAIL: _____

PHONE: _____

LEADER KEY

WITH EVALUATION HINTS

**Gold boxes contain leader hints for evaluating each requirement*

STEP 1 | DISCOVER

INITIALS

- a) Explain the most likely hazards in automotive maintenance and demonstrate the safety practices that prevent injury or damage. _____

♂ LEADER KEY

Look for practical, specific safety behavior rather than vague caution.

- b) Using a vehicle owner's manual, explain the maintenance schedule, key warning indicators, and the purpose/limits of seatbelts and passive restraints. _____

♂ LEADER KEY

Ensure the Saint can navigate the manual independently.

- c) Explain the basics of vehicle registration and inspections in your state (safety/emissions as applicable), and summarize why compliance matters. _____

♂ LEADER KEY

Confirm the Saint understands compliance as responsibility, not paperwork.

- d) Explain different motor types you may encounter (gasoline, diesel, hybrid, electric) and describe safety boundaries for high-voltage systems. _____

♂ LEADER KEY

Ensure safety boundaries are clear and conservative.

STEP 2 | PLAN

INITIALS

- a) Assemble an automotive maintenance kit and explain when each item is used for safety, inspection, or roadside readiness. _____

♂ LEADER KEY

Look for practicality and correct tool-to-task reasoning.

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. _____

♂ LEADER KEY

Ensure the checklist is realistic and aligned to the manual.

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. _____

♂ LEADER KEY

Observe procedure quality and safe handling—no rushed shortcuts.

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. _____

♂ LEADER KEY

Look for accurate observations and sensible recommendations.

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). _____

♂ LEADER KEY

Safety and correct identification matter more than speed.

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. _____

♂ LEADER KEY

Ensure the Saint can correctly find specs and inflate safely.

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.

 LEADER KEY

This is a high-responsibility skill—observe calm, correct sequencing.

- 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.

 LEADER KEY

Ensure the Saint stays within safe boundaries and makes conservative recommendations.

- 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.

 LEADER KEY

Look for a concrete, realistic habit commitment.

- b) Identify one career pathway in the automotive industry and describe what training, tools, and character strengths it requires.

 LEADER KEY

Ensure the pathway discussion stays realistic and skill-based.

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)