

UNIT IV

VEHICLE MAINTENANCE SURVEY

Name: _____

Date: _____

Circle the correct answer:

1. T or F Each day before it is put into operation, the law requires that each school bus must be pre-trip inspected to ensure the safety of both the pupils and the driver.
2. T or F The mechanic is the person responsible for safe operation of the school bus under all operating conditions.
3. T or F Drivers must carry the completed copy of a pre-trip inspection form indicating that the vehicle they are driving is free from defects that would interfere with the safe operation of their school bus.
4. T or F From the outside of the bus, check the operating condition of dash-mounted turn-signal indicators, high-beam indicator, eight-light indicator, instrument panel light, and step well light.
5. T or F Most fan belts will operate efficiently if not more than one-half inch give is maintained.
6. T or F Rust dust around the edge of the bolt or nut is a good indicator of a loose lug nut.
7. T or F Mirrors must not be loose and they should be checked daily for cleanliness, cracks, breaks or flaking.
8. T or F After allowing the air pressure to build up fully to charge the air brake system, one brake application should cause no more than 10-psi air drop. An excess of 10 psi indicates that brake adjustment is necessary.
9. T or F Dirty windows and mirrors will not compromise the safe operation of a school bus.
10. T or F Always release the parking brake before starting the vehicle.

Circle all the letters that apply for each of these multiple-choice questions.

11. In air brake systems, the emergency brake will be applied if there is:
- a. Inability to build air pressure.
 - b. Complete air pressure loss.
 - c. No air pressure loss.
 - d. An air pressure loss to 80#psi.
 - e. a. & b.
12. Report any unusual transmission noises or shifting difficulty to the:
- a. School Engineer.
 - b. State Inspector.
 - c. Bus Maintenance Supervisor.
13. Which unusual or substandard steering condition should be reported in writing:
- a. The power steering is quiet; during steering wheel movement from left turn stop to right turn stop.
 - b. The bus steers easily and it goes precisely where you steer it.
 - c. There appears to be too much play or jerking in the steering system.
 - d. The steering is steady in turns and when going over bumps.
14. Engine life will be extended when the driver:
- a. Remains alert to any unusual engine noises.
 - b. Never races a cold engine.
 - c. Increases speed slowly so that all parts may be properly lubricated.
 - d. Starts the engine and drives right away, in cold weather so oil pump can't cavitate (starved for oil).
 - e. a b & c
15. The most accurate way to check brake system air pressure is to:
- a. Check the brake light indicator.
 - b. Check the vacuum gauge periodically.
 - c. Use the tire pressure gauge.
 - d. None of the above.
16. The school bus driver who makes a thorough Pre-Trip, Operating and Post-Trip Inspection of his or her bus will be able to:
- a. Spot trouble.
 - b. Recognize defects before damage occurs.
 - c. Properly document any items needing repair.
 - d. All of the above.

17. Listening for trouble could include:

- a. Hard or wandering steering.
- b. Odor of hot electrical wires.
- c. Continuous or intermittent squeal.
- d. Loud exhaust noise.
- e. c & d.

18. Looking for trouble should include:

- a. Sudden drop in oil pressure.
- b. Smoke coming from under the dash or hood.
- c. Odor of burning rags.
- d. Excessive vibration (engine, steering wheel, and/or drive line).
- e. a. & b.

19. Smelling trouble would include:

- a. Odor of brake lining.
- b. Odor of hot electrical wires.
- c. Light knock when the engine is running at idle speed.
- d. a. & b.

UNIT IV

VEHICLE MAINTENANCE SURVEY

(Answer Key)

Note: This survey is a resource for the trainer to monitor how familiar employees are with the information in Unit IV. This **IS NOT** a substitute for the required survey on student conduct and students with special needs.

1. **TRUE** Each day before it is put into operation, the law requires that each school bus must be pre-trip inspected to ensure the safety of both the pupils and the driver.
2. **FALSE** The driver is the person responsible for safe operation of the school bus under all operating conditions.
3. **TRUE** Drivers must carry the completed copy of a pre-trip inspection form indicating that the vehicle they are driving is free from defects that would interfere with the safe operation of their school bus.
4. **FALSE** From the inside of the bus, check the operating condition of dash-mounted turn-signal indicators, high-beam indicator, eight-light indicator, instrument panel light, and step well light.
5. **TRUE** Most fan belts will operate efficiently if not more than one-half inch give is maintained.
6. **TRUE** Rust dust around the edge of the bolt or nut is a good indicator of a loose lug nut.
7. **TRUE** Mirrors must not be loose and they should be checked daily for cleanliness, cracks, breaks, or flaking.
8. **TRUE** After allowing the air pressure to build up fully to charge the air brake system, one brake application should cause no more than 10-psi air drop. An excess of 10-psi indicates that brake adjustment is necessary.
9. **FALSE** Dirty windows and mirrors will compromise the safe operation of a school bus.
10. **FALSE** Never release the parking brake before starting the vehicle.
11. In air brake systems, the emergency brake will be applied if there is:

- a. Inability to build air pressure.
- b. Complete air pressure loss.
- c. No air pressure loss.
- d. An air pressure loss to 80#psi.
- e. a. and b.

(Correct answer: e)

12. Report any unusual transmission noises or shifting difficulty to the:

- a. School Engineer.
- b. The State Inspector.
- c. The Bus Maintenance Supervisor.

(Correct answer: c)

13. Which unusual or substandard steering condition should be reported in writing:

- a. The power steering is quiet during steering wheel movement from left turn stop to right turn stop.
- b. The bus steers easily and it goes precisely where you steer it.
- c. There appears to be too much play or jerking in the steering system.
- d. The steering is steady in turns and when going over bumps.

(Correct answer: c)

14. Engine life will be extended when the driver:

- a. Remains alert to any unusual engine noises.
- b. Never races a cold engine.
- c. Increases speed slowly so that all parts may be properly lubricated.
- d. Starts the engine and drives right away, in cold weather so oil pump can't cavitate (starved for oil).
- e. a, b, and c

(Correct answer: e)

15. The most accurate way to check brake system air pressure is to:

- a. Check the brake light indicator.
- b. Check the vacuum gauge periodically.
- c. Use the tire pressure gauge.
- d. None of the above.

(Correct answer: d)

16. The school bus driver who makes a thorough pre-trip, operating and post-trip inspection of his or her bus will be able to:

- a. Spot trouble.
- b. Recognize defects before damage occurs.
- c. Properly document any items needing repair.
- d. All of the above.

(Correct answer: d)

17. Listening for trouble could include:

- a. Hard or wandering steering.
- b. Odor of hot electrical wires.
- c. Continuous or intermittent squeal.
- d. Loud exhaust noise.
- e. c & d.

(Correct answer: e)

18. Looking for trouble should include:

- a. Sudden drop in oil pressure.
- b. Smoke coming from under the dash or hood.
- c. Odor of burning rags.
- d. Excessive vibration (engine, steering wheel, and/or drive line).
- e. a. & b.

(Correct answer: e)

19. Smelling trouble would include:

- a. Odor of brake lining.
- b. Odor of hot electrical wires.
- c. Light knock when the engine is running at idle speed.
- d. a. & b.

(Correct answer: d)