2005 Tractor Operation Exam
Kansas Hazardous Occupation Training

Instructor: A passing score of 75% is recommended for the written exam.

Instructions: Place your name and today’s date at the top of the first page. The first section of the exam contains 30 multiple choice questions. Answer the questions by placing the letter for the correct answer on the line to the left of the question. The second section consists of 20 True or False Questions. To complete Section 2, circle T for True or F for False on each question.

SECTION 1 – MULTIPLE CHOICE

_____ 1. The letters ROPS stand for:
   A. Rear-over protection source
   B. Rolling protective source
   C. Rollover protective structure
   D. Rollback protective structure

_____ 2. Most farm machinery accidents involve:
   A. Tractors
   B. Big round balers
   C. Gravity-flow wagons
   D. Combines

_____ 3. Safe practices on the farm are the responsibility of whom?
   A. The farm owner
   B. Farm employees
   C. Everyone involved in the farming operation

_____ 4. The best reference for safe tractor operation instruction is:
   A. Any safety textbook
   B. The tractor’s operator’s manual
   C. No safety reference is needed to safely operate a tractor

_____ 5. Which of the following is a general safety practice for tractors on highways?
   A. Consider the best time of day, with lightest traffic, to travel with a tractor
   B. Be a courteous driver
   C. Identify visibility problems
   D. All of the above
6. To prevent untrained operators, children and visitors from accidentally starting the tractor:
   A. Park the tractor in the shed
   B. Remove the tractor keys from the ignition switch
   C. Store the tractor keys under the seat
   D. Scold little children about being near the tractor

7. “High hitching,” or hitching above the drawbar to get better traction will:
   A. Overload the rear tires
   B. Overload the rear axle
   C. Increase the chances of a rear overturn
   D. Increase the weight on the front wheels

8. The tractor seat should be adjusted so that the operator can:
   A. Reach the clutch
   B. Reach all controls
   C. Reach the ignition switch
   D. Reach the radio knob

9. A seat belt should be worn when operating a tractor:
   A. Never
   B. At all times
   C. Only when the tractor is equipped with a rollover protective structure (ROPS)

10. Regular, preventive tractor maintenance:
    A. Reduces tractor and machine failure
    B. Increases the service life of the tractor
    C. Reduces potential safety hazards
    D. All of the above

11. One-third of all farm injuries are caused by:
    A. PTO entanglements
    B. Falls
    C. Motor vehicles
    D. Grain suffocation

12. Which deadly gas is given off by gasoline engines?
    A. Carbon monoxide
    B. Hydrogen sulfide
    C. Carbon dioxide
    D. Carbon tetrachloride
13. Personal protective equipment (or PPE) does not prevent accidents, but is designed to prevent or reduce personal injury. Examples of PPE include:
   A. Safety goggles, dust masks, ear plugs
   B. Steel-toed shoes, gloves, gas masks
   C. Lipstick, nail polish, hand cream
   D. Both A and B are correct

14. A person’s reaction time may change due to:
   A. Aging
   B. Health
   C. Fatigue
   D. All of the above

15. A tractor is in its most stable position when it is:
   A. Operating with the center of gravity at its lowest position above ground
   B. Operating with the center of gravity at its highest position above ground
   C. Center of gravity does not affect the stability of a tractor
   D. Tractors are never stable

16. Daily tractor maintenance and safety checks are:
   A. A waste of time
   B. A wise safety decision and good preventive measure
   C. Too expensive
   D. Both A and C are correct

17. To change gears on a tractor, you need to:
   A. Reduce the throttle setting
   B. Push in the clutch
   C. Shift the lever to the selected gear
   D. All of the above

18. Which age group is most frequently the victim of extra rider fatalities?
   A. 1 to 15
   B. 16 to 45
   C. 46 to 70
   D. Over age 70

19. You are plowing and a light or gauge on the tractor’s instrument panel indicates low oil pressure, you should:
   A. Speed up and finish the plowing quickly
   B. Slow the engine speed and drive the tractor to get help
   C. Shut off the tractor and walk or call for help
   D. Immediately add more oil to the tractor
20. When one vehicle is towing another vehicle or implement on a roadway the drawbar or other connection must be strong enough to pull the weight of the towed implement (vehicle). In addition, there must be a ______________ fastened at the drawbar connection site:
A. Top link
B. Safety chain
C. Hydraulic coupler

21. You have accidentally gotten off the edge of the pavement while driving a tractor on a paved highway. What should you do?
A. Jerk the steering wheel to the left to get back up on the pavement
B. Hit the brakes and stop as quickly as possible
C. Slow the engine down and steer toward the bottom of the ditch
D. Jump off the tractor

22. Throttle controls next to the tractor seat increase engine speed when moved:
A. Rearward and downward
B. Rearward and upward
C. Forward or upward
D. Forward or downward

23. The ROPS on a tractor:
A. Prevent overturns
B. Protect the seat-belted operator from being crushed to death in an overturn
C. Are used to provide air conditioning to tractor cabs
D. Are sold as optional equipment only

24. When a tractor is in operation, additional forces besides gravity contribute to the tendency to overturn. These forces are:
A. Magnetism, elasticity, and electricity
B. Friction, buoyancy, and centrifugal force
C. Centrifugal force, rear axle torque, and leverage

25. Correct tractor tire inflation insures:
A. Proper traction
B. Proper flotation
C. Proper load support
D. All of the above

26. Before refueling a tractor, you should:
A. Shut off the engine
B. Allow the hot engine to cool
C. Leave the engine running

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_____ 27. When operating a high lift, front-mounted bucket, where should you keep the bucket while moving the tractor?
   A. As low as possible
   B. As high as possible
   C. Halfway up
   D. It doesn’t matter

_____ 28. Backward tipping of the tractor can occur
   A. If a heavy load exceeds the tractor’s pulling power
   B. If the tractor is driving downhill
   C. Rarely does a tractor tip backward
   D. Only when a tractor is pulling a load uphill

_____ 29. A tractor has the right-of-way over cars:
   A. Never
   B. Always
   C. Only as another motor vehicle would

_____ 30. Choking an engine to start it on a cold morning means:
   A. Holding the key in the start position for as long as it takes
   B. Providing more fuel than air for better ignition
   C. Gassing the engine by pumping the throttle
   D. Pouring extra fuel into the air cleaner to start the engine

SECTION 2 – TRUE or FALSE

T  F  31. Instrument gauges and operating sounds tell the tractor operator very little.

T  F  32. When traveling downhill, it is safe to coast with the tractor out of gear.

T  F  33. Almost all tractors are equipped with ROPS and a seatbelt regardless of how old they are.

T  F  34. Extra riders are no problem when operating farm tractors or machinery. In fact, drivers are encouraged to take extra riders so there are more eyes looking for hazards.

T  F  35. Never run the tractor engine in a closed building without adequate ventilation because the exhaust fumes are dangerous.

T  F  36. Tractors are exempt from following traffic laws.
T  F  37.  A slow moving vehicle (SMV) emblem is required on implements of husbandry traveling 25 miles per hour or less. If the implement is traveling over 25 miles per hour, the emblem should be covered.

T  F  38.  Hydraulically raised implements should always be secured in the raised position by the transport lock when being moved on roads.

T  F  39.  A tractor operator should check for obstacles, such as rocks or stumps before working in a field.

T  F  40.  All tractors should have a PTO master shield to protect workers.

T  F  41.  Leaking hydraulic oil can be accidentally injected into your flesh and will cause serious injury.

T  F  42.  At the end of a day’s work, it does not matter if equipment attached to the tractor is lowered to the ground or left in the upright position.

T  F  43.  It is best to warm up a tractor before placing it under a full load.

T  F  44.  Inflating a tire can be dangerous, so stand to one side.

T  F  45.  A red control knob means “Stop the engine."

T  F  46.  Tractors can be maneuvered safely at road speeds.

T  F  47.  Never open the radiator cap when the tractor engine is hot.

T  F  48.  The training certificate you receive for completing Hazardous Occupations Training is the same as a driver’s license.

T  F  49.  When charging batteries, the red cable goes to the positive (+) terminal and the black cable goes to the negative (-) terminal.

T  F  50.  Most accidents on the farm are caused by the failure of an individual to follow basic safety rules.