2008 Tractor Operation Exam
Kansas Hazardous Occupation Training

Instructor: A passing score of 75% is recommended for the written exam, meaning the student must get at least 38 questions correct.

Instructions: Place your name and today’s date at the top of the first page. The first section 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. Upon successful completion of the Hazardous Occupation Training and according to provisions of the Hazardous Occupations Order in Agriculture (HOOA), a person age 14 or 15 will be able to:
   A. Operate a tractor over 20 PTO horsepower
   B. Handle animal sires or sows and cows with newborns within a pen or corral or work more than 20 feet above the ground.
   C. Work with Category I and II agricultural chemicals and handle/use explosives and anhydrous ammonia
   D. All of the above

_____ 2. Many factors contribute to making farm/ranch work hazardous. What factors cause youth to be at greater risk of injury while working on a farm or ranch?
   A. Lack of coordination
   B. Lack of experience
   C. Lack of strength
   D. All of the above

_____ 3. The tractor’s ROPS (Rollover Protective Structure) is designed to:
   A. Prevent the tractor from rolling over
   B. Surround the operator with a “critical zone” of protection if the tractor overturns and the operator is wearing a seat belt.
   C. Prevent the operator from falling off the tractor
   D. All of the above

_____ 4. This operating procedure can help reduce the possibility of a tractor overturn.
   A. Locking the breaks together when traveling at higher speeds
   B. Setting the wheel width as wide as possible
   C. Keeping the front-end loader bucket lowered during transport
   D. All of the above
5. A seat belt should be worn when operating a tractor:
   A. Never
   B. Always
   C. Only when the tractor is equipped with a rollover protective structure (ROPS)
   D. Only by 14 and 15 year old tractor operators

6. Which farm machine causes the most serious injuries to youth?
   A. Gravity-flow wagons
   B. Forage harvesters
   C. Tractors
   D. Big round balers

7. Which of the following are hazards when operating a tractor in the field or around the farmstead?
   A. Stumps and rocks
   B. Ditches and irrigation pipes
   C. Utility and guide wires
   D. All of the above

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

9. Which of the following is NOT an indicator symbol you would see on a tractor?
   A. ![Symbol A]
   B. ![Symbol B]
   C. ![Symbol C]
   D. ![Symbol D]

10. Tractors are designed for four (4) primary purposes. Those purposes are:
    A. Pleasure, comfort, remote power source, economic stability
    B. Move loads, remote power source, implement carrier, transport unit
    C. Level soil, haul manure, make money, move hay bales
    D. Make farming safer, provide a powerful play machine, assist with stump removal, speed up planting
11. Operating a tractor at road speeds is more hazardous than operating at field speed because when the tractor speed doubles, the chance of upsetting the tractor is:
   A. The same
   B. Twice as likely
   C. Four times as likely
   D. Six times as likely

12. What can happen if you remove a radiator cap from a tractor’s overheated coolant system?
   A. An explosion
   B. Nothing
   C. You can be scalded by hot steam
   D. A fire may start

13. 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

14. Which of the following jobs is the most hazardous for young workers?
   A. Pizza delivery
   B. Fast food service
   C. Farm and ranch work
   D. Lawn maintenance

15. Before refueling a tractor, you should:
   A. Allow the hot engine to cool
   B. Unhitch all implements
   C. Thoroughly wash the tractor
   D. Leave the engine running

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

17. The most common type of tractor-related fatality is:
   A. Highway collision
   B. Being run over
   C. Tractor overturn
   D. PTO entanglement
18. The color red on a tractor control means:
   A. Windshield Wiper function
   B. Caution
   C. Stop the Engine function
   D. Hydraulic Lift function

19. When driving a tractor up a steep slope, such as onto a truck bed, the operator should:
   A. Back up the slope
   B. Drive up the slope
   C. Use a higher gear
   D. None of the above

20. Your daily pre-operation check of the tractor should include looking for:
   A. Loose wheel bolts
   B. Oil or hydraulic leaks on the ground under the tractor
   C. Oil, fuel, and coolant levels
   D. All of the above

21. Controls that regulate the ground speed of a tractor, such as the gearshift lever, are usually what color?
   A. Yellow
   B. Orange
   C. Red
   D. Blue

22. Most crashes between farm equipment and motor vehicles occur:
   A. During daylight hours and in good weather
   B. After dark
   C. After dark when the sky is overcast
   D. Because they move at different speeds, farm equipment and motor vehicles never collide.

23. Which operating procedure can help reduce the possibility of a tractor overturn?
   A. Setting the wheel width as wide as possible
   B. Lowering the front-end loader during transport
   C. Locking the brakes together when traveling at higher speeds
   D. All of the above

24. 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
   D. 3-Point hitch
25. You are assigned to rake hay in a field one mile from the farm shop. The engine oil pressure light comes on. What should you do?
   A. Drive to the farm shop immediately
   B. Stop and let the engine idle for 10 minutes
   C. Shut down immediately
   D. Shut off the engine until it cools and then restart and finish your work

26. Safety features on tractors that help prevent falls are:
   A. Non-slip surfaces
   B. Side-mounted steps
   C. Handholds and railings
   D. All of the above

27. You forgot to check the engine oil in the tractor before starting. When the oil light came on, you continued working. Now the engine must be rebuilt for a cost of $5,000. This is the only tractor your employer has to pull a forage harvester to chop 40 acres per day for the next 5 days. He estimates a nutrient loss value of $10 per acre because of the delay in harvest to repair the tractor engine. Using this information, what is the dollar loss to your employer?
   A. $5,000
   B. $500
   C. $7,000
   D. $10,000

28. When you are the first person to arrive at the scene of an accident, the most appropriate first response is to:
   A. Move the injured person to a safe place
   B. Call 911 or send someone to call 911
   C. Apply advanced first aid
   D. Carry the victim to the house and wait for an ambulance there

29. Power engagement controls are used to engage mechanisms using the tractor as a remote power source, such as the PTO control. These controls are usually what color?
   A. Yellow
   B. Orange
   C. Red
   D. Black

30. On a public roadway, a tractor has the right-of-way over cars:
   A. Never
   B. Always
   C. Only as another motor vehicle would
   D. When the tractor has a properly mounted SMV symbol
SECTION 2: TRUE or FALSE

T  F  31.  An injury can reduce your ability to earn income for the rest of your life.
T  F  32.  A rollover protective structure (ROPS) can keep a tractor from overturning.
T  F  33.  When attempting to free a tractor that is stuck in the mud, it is safest to back out.
T  F  34.  Over inflating a tire can cause a serious explosion.
T  F  35.  It is safe to dismount a tractor before it has come to a complete stop.
T  F  36.  Back-up warning alarms are found on most farm tractors.
T  F  37.  Safe tractor shutdown procedures are just as important as safe tractor startup procedures.
T  F  38.  One seat on the tractor means one rider only – the operator.
T  F  39.  Shorting across the starter terminals to start a tractor is acceptable if, and only if, the tractor was designed to start only in neutral.
T  F  40.  A slow moving vehicle (SMV) emblem is required on implements traveling 25 miles per hour or less. If the implement is traveling over 25 miles per hour, the emblem should be covered.
T  F  41.  At high speeds, liquid ballast in tractor tires can make the tractor easier to control and stop.
T  F  42.  Overspeeding PTO-operated equipment can cause serious damage to the equipment and may be hazardous to the operator.
T  F  43.  Seat belts should be worn only on ROPS-equipped tractors.
T  F  44.  A red control knob means “Stop the engine.”
T  F  45.  Tractors can be maneuvered safely at road speeds.
T  F  46.  The starter is part of the tractor’s hydraulic system.
T  F  47.  Low gear should be used when operating a tractor at higher speeds.
T  F  48.  The PTO should be off or disengaged before starting the tractor engine.
T  F  49.  Checking the radiator coolant is best done at the end of the day.
T  F  50.  Tractors are powerful machines that must be operated carefully.