2007 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. The Hazardous Occupations Order in Agriculture (HOOA) prohibits all 14 and 15 year olds from these tasks:
   A. Handling animal sires or sows and cows with newborns within a pen or corral and working more than 20 feet above the ground.
   B. Working with Category I and II agricultural chemicals and handling/using explosives and anhydrous ammonia
   C. All of the above
   D. None of the above if the youth take Hazardous Occupations Training

_____ 2. Most fatal farm injuries to youth occur to:
   A. Males younger than 20 years of age
   B. Females younger than 18 years of age
   C. Males younger than 10 years of age
   D. Females younger than 10 years of age

_____ 3. The tractor’s ROPS (Rollover protective structure) is designed to:
   A. Provide a structure for holding shade screens for safe summer operation
   B. Surround and protect the operator from being killed if the tractor overturns. They are only effective if the operator is wearing a seat belt.
   C. ROPS serve no purpose on a tractor
   D. Provide an easy way to determine the age of a tractor, since they have been required on tractors since 1976.

_____ 4. Backward tipping of the tractor can occur:
   A. If a heavy load exceeds the tractor’s pulling power
   B. Only when the tractor is driving downhill
   C. Almost never
   D. Only when a tractor is pulling a load uphill
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. Most farm machinery accidents involve:
   A. Gravity-flow wagons
   B. Combines
   C. Tractors
   D. Big round balers

7. The **primary** responsibility for protecting the safety and health of workers on the farm belongs to:
   A. The farm owner/employer
   B. Farm employees
   C. The local implement dealer
   D. The farm owner’s/employer’s spouse

8. Tractors are designed for four (4) **primary** purposes:
   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 bales
   D. Make farming safer, provide a powerful play machine, assist with stump removal, speed up planting

9. 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

10. Which of the following is **NOT** an operation symbol you would see on a tractor?
    A. 😊
    B. 📆
    C. 🐎
    D. 🌧️
11. Older tractors may be less safe than newer tractors because:
   A. They lack ROPS and seatbelts
   B. The front wheels do not turn as quickly as the steering wheel
   C. The tractors have no warning flashers or the flashers do not work
   D. A, B, and C are all reasons why older tractors may not be as safe as newer tractors.

12. What can happen if you remove a radiator cap from an overheated tractor’s 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. When starting the tractor, if you crank the starter motor too long, it could:
   A. Cause the engine to emit lethal gases
   B. Lower oil pressure
   C. Damage the starter or run down the battery
   D. Damage the indicator lights/gauges

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. 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
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. A glowing ammeter light on the tractor you are using to rake hay indicates the battery is not charging properly. What should you do?
   A. Shut down immediately
   B. Return to the shop immediately. Do not finish raking.
   C. Finish raking the hay and return to the shop as soon as you are done
   D. None of the above

20. Your daily pre-operation check of the tractor should include looking for:
   A. Low tires and leakage from the valve stem
   B. Oil or hydraulic leaks on the ground under the tractor
   C. Oil, fuel, and coolant levels
   D. All of the above

21. Orange is the color code for tractor ground motion controls. An example of a ground motion controls is:
   A. PTO control
   B. Transmission controls
   C. Hydraulics
   D. All of the above

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. For hitching an implement to the tractor’s drawbar:
   A. Use a large bolt in the drawbar hole if there is no hitch pin
   B. Use baling wire to fasten the implement’s tongue to the drawbar
   C. Use a properly sized hitch pin and security clip
   D. Heavy-duty strapping material can be substituted for a hitch pin

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. A good place to learn the operation symbols for a tractor is from:
A. A classmate
B. Another farm employee
C. The tractor’s Operator Manual
D. The tractor dealer

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. Lifting heavy loads with the front loader bucket on a tractor can result in the center of gravity:
A. Being raised
B. Being lowered
C. Being unchanged
D. Shifting from one side to the other

29. Yellow is the color code for controls that engage mechanisms using the tractor as a remote power source. An example of a power engagement control is:
A. The on-off switch
B. The differential lock
C. The PTO control
D. All of the above

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. Tractors are the primary source of work-related injuries on farms.
T  F  32. A rollover protective structure (ROPS) can keep a tractor from overturning.
T  F  33. A well-trained tractor operator can start the tractor moving without stalling, jerking, or lunging.
T  F  34. Tractors may vary in design and layout of the instrument panel, and ignition system, but starting and stopping gasoline and diesel engines involves only slightly different procedures.
T  F  35. It is safe to dismount a tractor before it has come to a complete stop.
T  F  36. Almost all tractors are equipped with ROPS and a seatbelt regardless of how old they are.
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. The safest place to keep tractor keys is in the ignition so everyone knows where to find them.
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. All tractor drivers should know what instruments and gauges are available and how to read them to know if the tractor is operating properly.
T  F  42. Hydraulically raised implements should never be secured in the raised position by the transport lock when being moved on roads.
T  F  43. Never warm up a tractor before placing it under a full load.
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. A tractor operator should check for obstacles, such as rocks or stumps, before working in a field.
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. Tractors are traction machines. They are not built for speed or fun.
T  F  50. Tractors are powerful machines that must be operated carefully.