

# SWANA

Kentucky Bluegrass Chapter

## 2026 KY Bluegrass SWANA Chapter Statewide ROAD-E-O

**It's ROAD-E-O time & the stakes have never been higher!**

**1st Prize-\$300.00, 2nd Prize-\$200.00, 3rd Prize-\$100.00**

The **SWANA ROAD-E-O** is designed to enhance employee morale, instill a competitive spirit, and encourage superior performance among the solid waste drivers and equipment operators at your city or company. This event is designed to be a competitive test and measure of a contestant's skill operating equipment and his or her knowledge of the safety regulations and equipment used.

Contestants are required to maneuver equipment through a preset course. All categories are judged for accuracy and time.

To compete, contestants must have been continuously employed as a driver for the past twelve months (before April 1, 2026) at the location he or she represents. Contestants must have not accumulated any chargeable accidents or injuries during the prior twelve months. Truck drivers must also have a clean Motor Vehicle Report and each contestant must have a reasonable work attendance record without any unexcused or unscheduled absences in the twelve months prior to the ROAD-E-O.

Other requirements:

**Registration forms for this event must be received by  
JUNE 5, 2026.**

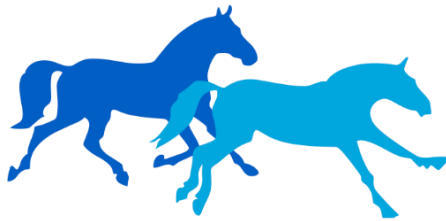
**STATE Truck ROAD-E-O: JUNE 13, 2025**

**Location:**

**1625 Old FrankfortPike  
Lexington, KY 40504**

Contestants are eligible to compete in the: **2026 International ROAD-E-O**

Date and Location: TBD



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### What is a SWANA ROAD-E-O?



#### MECHANICS



#### DRIVERS

The SWANA ROAD-E-O is a competitive test and measure of skill and knowledge.

The ROAD-E-O concept was created when Solid Waste Association of North America managers and mid-level foremen decided they needed a way to reward their staffs and showcase the talents of their crew in a family atmosphere.

Whether the ROAD-E-O competitor is a truck driver, landfill equipment operator or mechanic, the trail to the SWANA Kentucky Bluegrass chapter Statewide ROAD-E-O isn't an easy one.

ROAD-E-O competitors must meet several important criteria (including at least a year of accident free on the job performance) and win either first or second place in their regional or statewide ROAD-E-O competition in order to qualify for the International ROAD-E-O.

SWANA – and the world at large – recognizes the outstanding performances of the ROAD-E-O competitors. Winners often receive cash prizes and some companies or municipalities match the awards. Local papers cover the events, and despite the competitive spirit, the ROAD-E-O remains a community outreach event that brings together families, co-workers and professionals.

During the SWANA ROAD-E-O, the following equipment is used to test drivers' abilities in a standard obstacle course:

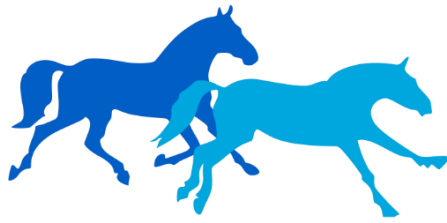
#### **Truck:**

Roll-Off  
Rear Load  
Front Load  
Automated Side Load

#### **Mechanics:**

Vehicle inspection

\*The above information is based in part on information provided by [www.swana.org](http://www.swana.org). Visit [www.swana.org](http://www.swana.org) to learn more about SWANA, the leading professional association in the solid waste field!



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### COMPETITION REQUIREMENTS/CATEGORIES



To compete, contestants must have been continuously employed as a driver for the past twelve months (before April 1, 2026) at the location he or she represents. Contestants must not have accumulated any chargeable accidents or injuries during the prior twelve months. Truck drivers must also have a clean Motor Vehicle Report and each contestant must have a reasonable work attendance record without any unexcused or unscheduled absences in the twelve months prior to the ROAD-E-O.



#### 2026 Truck ROAD-E-O Categories

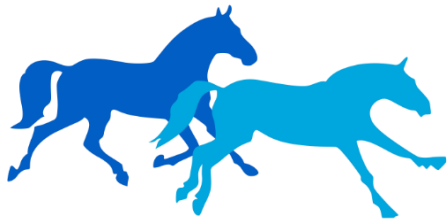
- \*Front End Loader
- \*Rear Load
- \*Automated Side Load
- \*Roll Off
- \*Mechanics

#### Other Requirements:

- Personal appearance:
- No open toe shoes allowed
- Written Exam
- Pre-trip inspection
- Signed release and waiver of liability
- Skill test: **Truck**

The contestants must operate equipment through a test course made up of specific driving situations. The driving course will consist of seven (7) events.

Alley Backing	Right Turn	Straight Line
Parallel Parking	Offset Alley	Stop Line
Serpentine Forward/Reverse		
Mechanics: Vehicle inspection		



# SWANA

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## 2026 KY Bluegrass SWANA Chapter Statewide ROAD-E-O

### COMPETITION ITINERARY: TRUCK ROAD-E-O



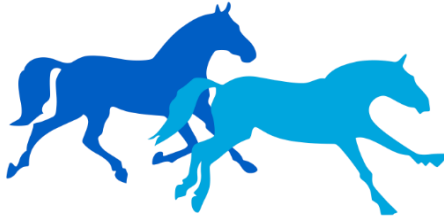
**Saturday, June 13, 2026**

**LOCATION: 1625 Old Frankfort Pike  
Lexington, KY 40504**

<b>8:00 – 9:00 A.M.</b>	<b>Sign-In/Registration at ROAD-E-O location</b>
<b>9:00 - 9:30 A.M.</b>	<b>Safety Training (required for all participants)</b>
<b>9:30 – 9:45 A.M.</b>	<b>Course Walk-Thru</b>
<b>9:45 – 11:45 A.M.</b>	<b>ROAD-E-O Competition Trucks and Mechanics</b>
<b>11:45 – 12:45 P.M.</b>	<b>Awards Luncheon</b>



**1st Prize - \$300.00, 2nd Prize - \$200.00  
3rd Prize-\$100.00**



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## 2026 KY Bluegrass SWANA Chapter Statewide ROAD-E-O

### TRUCK ROAD-E-O APPLICATION



**Truck ROAD-E-O Event**  
will be held on **June 13, 2025** at:  
1625 Old Frankfort Pike  
Lexington, KY 40504

Name: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Phone: (\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_

Home Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_ Zip: \_\_\_\_\_

Are you, or your employer, a SWANA member? Y / N

SWANA membership # \_\_\_\_\_

Employer: \_\_\_\_\_

Work Address: \_\_\_\_\_

City: \_\_\_\_\_

State \_\_\_\_\_ Zip: \_\_\_\_\_ Employment Start Date \_\_\_\_/\_\_\_\_/\_\_\_\_

Phone: (\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_ Fax: (\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_

Please check **ONLY ONE** (1) box for the piece of equipment that you will be contending:

Front End Load  Rear Load  Side Load  Roll- Off  Mechanic

I certify that this employee has met all the following qualifications: Employee must not have been involved in a chargeable accident or moving violation within the last 12 months and this employee has not had any unexcused absences within the last 12 months.

Registration form, bio questionnaire and liability release must be returned by **JUNE 5, 2026**.

The last 12 months are – **May 1, 2025 through April 1, 2026**

\_\_\_\_\_  
**Signature of Employer**

\_\_\_\_\_  
**Signature of Driver**

**Email Application and Written Exam to:**

Road-e-o@kyswana.com

**Or mail to the following address:**

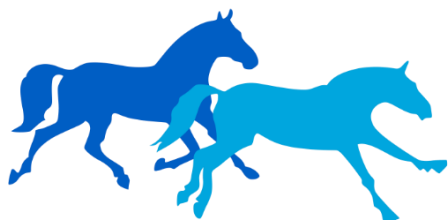
Municipal Equipment Inc

c/o Jocelynn Clindaniel

PO Box 197809

Louisville, KY 40259

Cell phone: (502) 216-0353



# SWANA

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## 2026 KY Bluegrass SWANA Chapter Statewide ROAD-E-O

### 2026 ROAD-E-O Bio Questionnaire

Name of participant: \_\_\_\_\_

Name of your employer: \_\_\_\_\_

Age: \_\_\_\_\_ **Number of guests that will be attending with you:** \_\_\_\_\_

How long have you been in the solid waste industry? \_\_\_\_\_

Is this your first ROAD-E-O? \_\_\_\_\_ If not, how many years have you competed? \_\_\_\_\_

Are you married? \_\_\_\_\_ If so, what is your spouse's name: \_\_\_\_\_

Do you have children? \_\_\_\_\_ How many? \_\_\_\_\_ What are their names and ages?

Name	Age
1. _____	
2. _____	
3. _____	
4. _____	
5. _____	

What are your hobbies?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

What is your favorite piece of equipment to operate or repair at work and why is it your favorite?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Do you have an interesting work-related experience or piece of advice that you would like to share? What is it?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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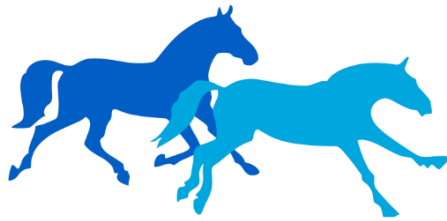
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### Judges/Volunteer Application

Name: \_\_\_\_\_

Employer: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Email address: \_\_\_\_\_



**Truck ROAD-E-O Event**  
will be held on June 13, 2026 at:

1625 Old Frankfort Pike  
Lexington, KY 40504

#### What would you like to volunteer/register as?

\_\_\_\_\_ ROAD-E-O Judge:

\_\_\_\_\_ ROAD-E-O Volunteer

\_\_\_\_\_ Number of Adult Guests Attending      \_\_\_\_\_ Number of School Age Children Attending

**Total number of persons attending, including school age children and adult guests:** \_\_\_\_\_

*Release and Waiver Liability: All participating judges, volunteers and their guests will be required to sign a Release and Waiver of Liability, Assumption of Risk and Indemnity Agreement when checking in and picking up the Informational Packet of the Event.*

***DUE JUNE 5, 2026***

#### Email Application and Written Exam to:

Road-e-o@kyswana.com

#### Or mail to the following address:

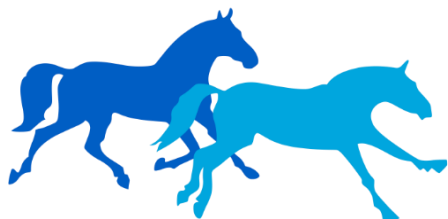
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### RELEASE AND WAIVER OF LIABILITY, ASSUMPTION OF RISK AND INDEMNITY AGREEMENT

2026 State Truck ROAD-E-O June 13, 2026 in Lexington, KY

IN CONSIDERATION of being permitted to compete, officiate, observe, work for, or participate in any way in the EVENT(S) or being permitted to enter for any purpose any RESTRICTED AREA (defined as any area requiring special authorization, credentials, or permission to enter or any area to which admission by the general public is restricted or prohibited), EACH OF THE UNDERSIGNED, for himself, his personal representatives, heirs, and next of kin:

1. Acknowledges, agrees, and represents that he have or will immediately upon entering any of such RESTRICTED AREAS, and will continuously thereafter, inspect the RESTRICTED AREAS which he enters, and he further agrees and warrants that, if at any time, he is in or about RESTRICTED AREAS and he feels anything to be unsafe, he will immediately advise the officials of such and if necessary will leave the RESTRICTED AREAS and/or refuse to participate further in the EVENT(S).

2. HEREBY RELEASES, WAIVES, DISCHARGES AND COVENANTS NOT TO SUE the promoters, participants, racing associations, sanctioning organizations or any subdivision thereof, track operators, track owners, officials, car owners, drivers, pit crews, rescue personnel, any persons in any RESTRICTED AREA, promoters, sponsors, advertisers, owners and lessees of premises used to conduct the EVENT(S), premises and event inspectors, surveyors, underwriters, consultants and others who give recommendations, directions, or instructions or engage in risk evaluation or loss control activities regarding the premises or EVENT(S) and each of them, their directors, officers, agents and employees, all for the purposes herein referred to as "Releasees," FROM ALL LIABILITY TO THE UNDERSIGNED, his personal representatives, assigns, heirs, and next of kin FOR ANY AND ALL LOSS OR DAMAGE, AND ANY CLAIM OR DEMANDS THEREFOR ON ACCOUNT OF INJURY TO THE PERSON OR PROPERTY OR RESULTING IN DEATH OF THE UNDERSIGNED ARISING OUT OF OR RELATED TO THE EVENT(S), WHETHER CAUSED BY THE NEGLIGENCE OF THE RELEASEES OR OTHERWISE.

3. HEREBY AGREES TO INDEMNIFY AND SAVE AND HOLD HARMLESS the Releasees and each of them FROM ANY LOSS, LIABILITY, DAMAGE, OR COST they may incur arising out of or related to the EVENT(S) WHETHER CAUSED BY THE NEGLIGENCE OF THE RELEASEES OR OTHERWISE.

4. HEREBY ASSUMES FULL RESPONSIBILITY FOR ANY RISK OF BODILY INJURY, DEATH OR PROPERTY DAMAGE arising out of or related to the EVENT(S) whether caused by the NEGLIGENCE OF RELEASEES or otherwise.

5. HEREBY acknowledges that THE ACTIVITIES OF THE EVENT(S) ARE VERY DANGEROUS and involve the risk of serious injury and/or death and/or property damage. Each of THE UNDERSIGNED, also expressly acknowledges that INJURIES RECEIVED MAY BE COMPOUNDED OR INCREASED BY NEGLIGENT RESCUE OPERATIONS OR PROCEDURES OF THE RELEASEES.

6. HEREBY agrees that this Release and Waiver of Liability, Assumption of Risk and Indemnity Agreement extends to all acts of negligence by the Releasees, INCLUDING NEGLIGENT RESCUE OPERATIONS and is intended to be as broad and inclusive as is permitted by the laws of the Province or State in which the Event(s) is/are conducted and that if any portion thereof is held invalid, it is agreed that the balance shall, notwithstanding, continue in full legal force and effect.

I HAVE READ THIS RELEASE AND WAIVER OF LIABILITY, ASSUMPTION OF RISK AND INDEMNITY AGREEMENT, FULLY UNDERSTAND ITS TERMS. UNDERSTAND THAT I HAVE GIVEN UP SUBSTANTIAL RIGHTS BY SIGNING IT AND HAVE SIGNED IT FREELY AND VOLUNTARILY WITHOUT ANY INDUCEMENT, ASSURANCE OR GUARANTEE BEING MADE TO ME AND INTEND MY SIGNATURE TO BE A COMPLETE AND UNCONDITIONAL RELEASE OF ALL LIABILITY TO THE GREATEST EXTENT ALLOWED BY LAW. ALL SECTIONS MUST BE COMPLETED.

**DATE SIGNED:** \_\_\_\_\_

**SIGNATURE AND TITLE OF WITNESS:** \_\_\_\_\_

**PRINT NAME HERE:** \_\_\_\_\_

**SIGN NAME HERE:** \_\_\_\_\_

**2026 KENTUCKY STATE SWANA ROAD-E-O**

**Drivers Written Exam**

**To be turned in no later than JUNE 5, 2025**

CONTESTANT NAME (PRINT): \_\_\_\_\_

- 1) What is the minimum annual rate for administering random alcohol testing?
  - a. 10 percent.
  - b. 25 percent.
  - c. 50 percent.
  - d. There isn't a minimum annual rate.
  
- 2) Stopping distance is determined by which factors:
  - a. Perception distance, reaction distance, brake lag distance, braking distance.
  - b. Reaction distance and braking distance.
  - c. Depth perception, reaction time, condition of brakes.
  - d. None of the above.
  
- 3) Taking a curve too fast could cause:
  - a. The steering wheel to lock up.
  - b. The wheels of a vehicle to lose traction, resulting in a skid.
  - c. A traffic jam.
  - d. None of the above.
  
- 4) At the scene of an accident or breakdown, regulations call for the use of:
  - a. Three bi-directional emergency reflective devices.
  - b. Six fuses capable of burning for 30 minutes.
  - c. Three liquid burning flares filled with enough fuel to burn continuously for at least one hour.
  - d. Any of the above.
  
- 5) The Federal Motor Carrier Safety Regulations (FMCSR) require you to set out emergency warning devices within \_\_\_\_\_minutes of stopping.
  - a. five
  - b. ten
  - c. fifteen
  - d. thirty
  
- 6) You must complete and sign a written driver vehicle inspection report:
  - a. At the start of your shift.
  - b. At the end of each day's work on each vehicle you drove.
  - c. At the beginning of each month.
  - d. None of the above.

7) The professional driver never:

- a. Watches his vehicle's speed and space.
- b. Tailgates.
- c. Has a positive attitude.
- d. All of the above.

8) To maintain space to the sides of your vehicle you should:

- a. Use your mirrors.
- b. Stay centered.
- c. Communicate your presence.
- d. All of the above.

9) It is unsafe to pass when:

- a. Going uphill.
- b. Approaching a side road.
- c. Approaching a bridge.
- d. All of the above.

10) When passing a vehicle, the driver should:

- a. Stay as far left as possible
- b. Stay as far right as possible.
- c. Remain in the center lane.
- d. None of the above.

11) Skids are caused by:

- a. Over acceleration.
- b. Over braking.
- c. Oversteering.
- d. All of the above.

12) Which of the following is not a type of skid?

- a. Braking skid.
- b. Sledding skid.
- c. Power skid.
- d. Cornering skid.

13) Front wheel skids are often caused by:

- a. Reduced front wheel traction.
- b. Lack of tread on front tires.
- c. Oversteering.
- d. All of the above.

14) \_\_\_\_\_ is considered a serious traffic violation.

- a. Reckless driving.
- b. Improper lane changes.
- c. Following the vehicle ahead too closely.
- d. All of the above.

15) A driver is disqualified for 60 days for committing \_\_\_\_\_serious traffic violations.

- a. One.
- b. Two.
- c. Three.
- d. Four

16) Hydroplaning is caused by:

- a. Excessive speed.
- b. Under-inflated tires.
- c. Worn tires.
- d. All of the above.

17) A driver is prohibited from using alcohol:

- a. While performing safety-sensitive functions.
- b. During the 8 hours before performing safety-sensitive functions.
- c. At all times whether on duty or off duty.
- d. After 10 p.m.

18) Tests for drugs are done:

- a. With a specially treated swab.
- b. By analyzing a urine specimen.
- c. Through a series of breath tests.
- d. By analyzing a cardiac stress test.

19) What are the three physical factors that play a part in falls?

- a. Momentum, density, and gravity.
- b. Friction, gravity, and momentum.
- c. Friction, momentum, and density.

20) Density, friction, and gravity. When rounding a curve, you should:

- a. Use your vehicle's hazard warning flashers.
- b. Alternate between your vehicle's low beam and high beam headlights.
- c. Reduce your vehicle's speed.
- d. Increase your vehicle's speed.

21) When driving at night you should:

- a. Look directly into the headlights of oncoming vehicles.
- b. Not look directly into the headlights of oncoming vehicles.
- c. Both A and B.
- d. None of the above.

22) In good weather low beam headlights allow you to see:

- a. 150 feet
- b. 200 feet
- c. 250 feet
- d. 300 feet

23) In good weather high beam headlights allow you to see:

- a. 100 to 200 feet
- b. 200 to 250 feet
- c. 250 to 300 feet
- d. 350 to 500 feet

24) Which areas of your vehicle should you pay special attention to when it comes to preventive maintenance?

- a. Tires.
- b. Brakes.
- c. Engine.
- d. All of the above.

25) The professional driver is:

- a. Courteous.
- b. Punctual.
- c. Reliable.
- d. All of the above.

26) Who is responsible for the public image of truck drivers?

- a. Law enforcement.
- b. All motorists.
- c. Truck drivers.

27) What step should a driver take to improve his/her visibility as well as being seen by other drivers?

- a. Keep the windshield and mirrors clean and clear.
- b. Use mirrors and constantly scan the traffic to the front and sides.
- c. Look 10 to 12 seconds ahead of the vehicle in the city, and further ahead on the highway.
- d. All of the above.

28) Which of the following play a part in which gear a driver needs to select to safely travel on a upgrade?

- a. Steepness of grade.
- b. Length of grade.
- c. Weight of load.
- d. All of the above.

29) When using the "5-3" rule or "stab braking" you should:

- a. Begin your descent at a controlled speed.
- b. Apply brakes firmly to reduce speed 5 mph in 3 seconds when the control speed is exceeded.
- c. Repeat b. as often as necessary.
- d. All of the above.

30) Which of the following is considered a major offense?

- a. Speeding 10 mph or more above the speed limit.
- b. Improper lane changes.
- c. Leaving the scene of an accident.
- d. All of the above.

31) A driver who is convicted of two major offenses can be disqualified for:

- a. One year
- b. Three years
- c. Five years
- d. Life

32) When leaving an expressway, you should:

- a. Signal early.
- b. Check mirrors.
- c. Get in the turn lane as soon as possible.
- d. All of the above.

33) If the traffic light turns yellow as you approach the intersection:

- a. Speed up slightly to make it through before the light turns red.
- b. Slow down and prepare to stop.
- c. Look both ways then speed up slightly to cross before the light turns red.
- d. Tap your brakes then proceed across the intersection.

34) If an underpass is marked 14 feet and your rig is 13.5 feet:

- a. Assume you have adequate clearance to pass through safely.
- b. Assume you have clearance and follow the posted speed limit.
- c. Slow down as you approach to evaluate the road surface and your clearance.
- d. None of the above.

35) The basic tenant of defensive driving is:

- a. Stay alert and aim high.
- b. Look well ahead.
- c. See the whole picture.
- d. All of the above.

36) How much a driver slows down in a curve depends on:

- a. The sharpness of the curve.
- b. Road conditions.
- c. Visibility.
- d. All of the above.

37) When merging with traffic, you should:

- a. Signal early.
- b. Build up speed to merge smoothly.
- c. Both a. and b.
- d. Shift down to a lower gear.

38) Which of the following items is not required on a driver vehicle inspection report:

- a. Windshield wipers.
- b. Horn.
- c. Tires.
- d. Radiator.

39) Before driving a commercial motor vehicle, you must:

- a. Complete and sign a written driver vehicle inspection report.
- b. Ask the mechanic about the vehicle's condition.
- c. Review the last written report and be satisfied that the vehicle is in safe operating condition.
- d. None of the above.

40) The motor carrier must retain the original copy of each vehicle inspection report for:

- a. One month.
- b. Two months.
- c. Three months.
- d. Six months.

41) If you are involved in an accident or are the first at the scene what is the first thing you should do?

- a. Report to your company at once.
- b. Admit fault.
- c. Report the accident and the damage to your company.
- d. Stop immediately.

42) If you feel you are at fault in an accident:

- a. Tell the police officer.
- b. Do not admit guilt at the scene.
- c. Tell the police officer and notify your company.
- d. Notify the company and they can talk with law enforcement.

43) Which of the following is a basic rule a professional driver should follow when turning?

- a. Know the vehicle.
- b. Plan in advance.
- c. Watch your mirrors.
- d. All of the above.

44) When a vehicle rounds a curve and its rear wheels do not follow the same path as the front wheels this is called:

- a. Hydroplaning.
- b. Deplaning.
- c. Off-tracking.
- d. On-tracking.

45) Which of the following is not a type of testing required under the regulations?

- a. Post-accident.
- b. Random.
- c. Return-to-duty.
- d. Pre-employment alcohol testing.

46) If an accident involves a parked vehicle:

- a. Leave immediately.
- b. Stay on the scene until the owner of the vehicle returns.
- c. Leave your name, company's name, and phone number with an area business or resident.
- d. None of the above.

47) What is the minimum annual rate for administering random drug testing?

- a. 25 percent.
- b. There isn't a minimum annual rate.
- c. 75 percent.
- d. 50 percent.

48) When randomly selected to undergo a drug or alcohol test, you:

- a. May report to the collection site at any time within the next 72 hours.
- b. Must report to the collection site immediately.
- c. Must make an appointment for a test with your family physician.
- d. May report to the collection site within the next 16 hours.

49) After being notified that a drug test is positive a driver has \_\_\_\_\_ to request a test of the split specimen.

- a. 24 hours
- b. 48 hours
- c. 72 hours
- d. an unlimited amount of time

50) Which of the following items should be checked on a regular basis to help prevent a cab or engine fire?

- a. Batteries.
- b. Fuses.
- c. Electrical systems.
- d. All of the above.



13. Improper condition of the hydraulic fluid can cause pump failure. TRUE FALSE
14. Cylinders convert mechanical power to fluid power. TRUE FALSE
15. Galvanized pipe is recommended for high pressure hydraulic plumbing. TRUE FALSE
16. A swash plate is used in an external gear pump. TRUE FALSE
17. A volt is a measure of current flow. TRUE FALSE
18. The need to add excessive water to a battery indicates the charging rate is too high.  
TRUE FALSE
19. The engine will not start if the polarity is reversed in an electrical system with an alternator.  
TRUE FALSE
20. Weak brush-holder springs will cause brushes to short circuit. TRUE FALSE
21. Employees who are at the top of their grade are considered valuable employees to the organization.  
TRUE FALSE
22. If you are giving instructions to a co-worker, make sure they ask questions to find out if the instructions are understood. TRUE FALSE
23. Workers are expected to understand required standards and have the ability to meet those standards in their daily work environment. TRUE FALSE
24. Class C fire extinguishers were developed for small fires involving electrical wiring, controls, panels and motors. TRUE FALSE
25. A torque wrench measures the size of a nut. TRUE FALSE
26. A chassis dynamometer is an electronic analyzer. TRUE FALSE
27. A good tool for checking a cooling system is a radiator and pressure-cup tester. TRUE FALSE
28. A feeler gauge is recommended for checking tread depth of tires. TRUE FALSE
29. A tire-inflation cage prevents slow leaks in tires. TRUE FALSE
30. Actual compression pressure in a diesel engine is approximately 300 psi. TRUE FALSE
31. Ether is used as a starting aid for diesel engines because it ignites at low temperatures.  
TRUE FALSE
32. The actual compression pressure on a diesel engine is approximately 200 psi. TRUE FALSE

33. The compression release on a Cummins engine operates by holding the valves open.

TRUE FALSE

34. Mechanics should avoid adding 90-degree elbow fitting to the air brake system, adding four elbows is equivalent to 28 feet of hose. TRUE FALSE

35. Break hoses must be replaced if worn, chaffed, cut or cracked through the outer cover.

TRUE FALSE

36. Kinked or plugged air compressor discharge lines have been known to cause a pressure build-up so great the cylinder block will be lifted off the crankcase of the compressor and completely destroy the compressor. TRUE FALSE

37. Excessive oil in the air brake system is probably caused by engine oil pressure being too high.

TRUE FALSE

38. The function of a thermostat is to prevent overheating. TRUE FALSE

39. The maximum freezing protection is obtained by a mixture of ethylene glycol and water at the rate of 50% antifreeze and 50% water. TRUE FALSE

40. If a vehicle ammeter shows "charge" when the headlights are turned on after a battery replacement, it indicates a fuse in the charging circuit is blown. TRUE FALSE

41. The best freezing and cooling protection are obtained with 100% ethylene glycol in the radiator. TRUE FALSE

42. A "split" hydraulic brake system is two separate systems with a dual master cylinder.

TRUE FALSE

43. When brake drums have been machined (turned) to the maximum limit specified by the vehicle manufacturer or state law, and additional machining is needed to true the drum, it should be exchanged for a rebuilt drum. TRUE FALSE

44. If a brake pedal rises and falls or pulsates when brakes are applied, the probable cause is glazed lining.

TRUE FALSE

45. On a vehicle with disc/drum brakes, the front brakes grab quickly when light pedal pressure is applied.

This problem could be caused by a bad proportioning valve.            TRUE            FALSE

46. If a hydraulic brake line is leaking, the correct repair would be to replace the leaking line with double flared steel tubing.    TRUE            FALSE

47. A cracked or loose intake manifold causes a noticeable drop in oil pressure.            TRUE            FALSE

48. A vacuum gauge is useful for analyzing fuel-air ratio.            TRUE            FALSE

49. The device used to check ignition timing, with the engine running, is a xenon timing light.

TRUE            FALSE

50. A dirty or partially clogged air cleaner will decrease fuel efficiency.            TRUE            FALSE

