

2019



**Texas
School Bus Driver
Safety Competition**

June 28-29, 2019

Dallas, Texas

**Sponsored by the Texas Association for
Pupil Transportation**



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2019 TAPT School Bus Driver Safety Competition

2019 ENTRANCE REQUIREMENTS

- 1) The Texas School Bus Driver Safety Competition hosts one (1) State Competition welcoming both private and public sector contestants. In order to be eligible, contestants must have competed at the regional level in which their district resides.
- 2) The Texas School Bus Driver Safety Competition will have the following categories of competition:
 - School Bus Conventional – Type C
 - School Bus Transit – Type D
- 3) Each region is allowed up to three (3) contestants in **each** school bus category totaling a maximum of six (6) contestants. A pre-registered alternate may compete only in the event the registered contestant is unable to do so. The Alternate must compete in the same category as the absent driver. A contestant is only eligible to enter one category of competition and must register in the category in which he/she won at the region level.
- 4) In order to qualify for competition a contestant must:
 - a. Must be involved in the daily transportation of students
 - b. Hold a valid Commercial Driver's License (CDL) with a "P" and "S" endorsements
 - c. Hold a valid State of Texas Certification Card
 - d. Hold a valid Texas School Bus Driver Physical
 - e. Must not have had a preventable school bus accident (as defined by the National Safety Council Safe Driver Award Program) since September 1, 2018
(Definition of a Preventable Accident)
"An occurrence involving an employer owned or leased vehicle that results in an accident in which the driver in question failed to exercise every reasonable precaution to prevent it."
 - f. All contestants must be pre-registered and fees paid by the close of business day May 31, 2019
 - g. No contestant will be eligible unless he/she meets **ALL** the above criteria
- 5) Friday, June 28, 2019 Events for Road-e-o Judges and Contestants
 - All **contestants** must report to the Anatole on **Friday, June 28, 2019 @ 3:00 p.m. for the General Knowledge/Pre-Trip test from 3:30 p.m.- 4:00 p.m. Contestant and Judges meeting will be from 4:15pm – 4:40pm. We will then have the course drive through at 4:45pm. *NOTE: Contestants must be checked in with the TAPT Registration booth before the test.**
 - When **contestants** arrive for the test, they need to bring a **completed** International Competition Entry form. Forms can be found on the TAPT website.

- All **HEAD judges** must report to Anatole on **Friday, June 28, 2019 @ 4:15 p.m.** for the judge's orientation and instruction meeting. (meeting is mandatory for head judges and optional for all other judges)
- 6) All contestants and judges must report to the competition registration and judges check-in by **Saturday, June 29, 2019 @ 6:30 a.m.** **Road-e-o will start promptly at 7:00 a.m.**
 - 7) Each contestant must be **pre-registered and fees paid** by the close of business day **May 31st, 2019.**
 - 8) All contestants must be checked-in and registered with the TAPT registration booth prior to the scheduled test to be held Friday, June 28, 2019. Contestants must receive their badge and packet before attending any of the orientation and instruction meeting.
 - 9) No scores will be provided prior to the Awards Ceremony on Saturday evening, June 29, 2019. A Scoring Summary will be provided to each contestant after the awards presentation. Copies of individual sheets will be handed to the contestant's following the TAPT Awards Banquet. A Scoring Summary will be placed on the TAPT Web site approximately two weeks after competition.

No changes will occur on the course set-up once competition starts. However, the Competition Chairman may disqualify any event during competition and apply the point value equally to all contestants.

REGULATIONS

Contestants are to report for the following competition activities:

- Contestant General Knowledge/Pre-Trip Test @ 3:30pm followed by Contestant Orientation and instruction meeting @ 4:15pm, Friday, June 28, 2019
 - Course drive through Friday, June 28, 2019 @ 4:45 p.m.
 - Contestant / Judges breakfast 6:15 a.m., Saturday, June 29, 2019
 - Road-e-o event starts at 7:00 a.m. Saturday, June 29, 2019
 - *Late arrival to any of the above activities may disqualify the contestant*
 - Banquet Dinner & Awards Ceremony 7:00 p.m., Saturday June 29, 2019
- 1) Contestants will be required to remain in the driver preparation area until called for competition. Drivers are not allowed on the course or adjacent to any of the events.
 - 2) Vehicles in the competition will have the rear windows covered with a non-transparent material.
 - 3) It is understood that elementary students are on the bus from the time the driver leaves the start line and the driver must conduct him/herself accordingly.

- 4) In all events the doors must remain closed unless the rules of an event require the door to be opened.
- 5) Contestants will drive in the order of the contestant number provided at registration on Friday for the school bus class of competition they entered. If a contestant is not available at the time they are scheduled to drive they may be disqualified. The driver must report to the start line within five (5) minutes of the announcement.
- 6) Each contestant will be allowed a **maximum of six (6) minutes** to familiarize him/herself with the instrumentation and controls of the school bus to be driven in competition. The driver may request assistance, from a competition official, in the adjustment of mirrors and seats within the manufactured specifications.
- 7) The contestant may be timed at selected events. The contestants' accumulated time for the timed events will be used to determine ranking in the case of a tie in the final total score.
- 8) Contestants may notify the Competition Head Judge at the final event of the course, if they feel that an interference or problem affected their competition. Any concern must be reported immediately before exiting the competition vehicle. Once the contestant has exited the competition vehicle, no grievance or concern will be accepted. The contestant may complete the grievance form and hand it to the Competition Head Judge. If interference or a problem is confirmed and the score of the individual competitor is affected, a determination will be made as to whether to allow a re-run of that event. If a rerun is granted, an official of the competition will escort the competitor directly to the event involved. If a re-run is allowed, the score of the re-run will become the official score and not the previous score that was recorded before the re-run. The determination by the Competition Chairman will be final relative to the concern.
- 9) No scores will be provided prior to the Awards Ceremony on Saturday evening, June 29, 2019. A Scoring Summary will be provided to each contestant after the awards presentation. Copies of individual sheets will be handed to the contestant's following the TAPT Awards Banquet. A Scoring Summary will be placed on the TAPT Web site approximately two weeks after competition.

DISQUALIFICATIONS

Any of the following may result in disqualification of a contestant:

- 1) Any misconduct on the part of a participant or spectator such as the following:
 - Unprofessional behavior
 - Speeding and/or unsafe driving on the course
 - Use of drugs
 - Use of any alcohol during or immediately prior to the competition
- 2) Any contestant who knowingly accepts signals from anyone may be automatically disqualified. For this reason, all spectators are required to stay a minimum of 50 feet from the perimeter of each event and off the course. A spectator area will be designated and provided.
- 3) Failure to maintain proper driving position, (i.e. firmly in the driver's seat, use of seatbelt, hands on the wheel, etc.)
- 4) A contestant is not allowed to place his/her head out the window. Making modifications of the driver's seat in any way, other than the manufacturer's standards, that could help the driver, will disqualify the driver and may disqualify any other driver prior to the discovery. Drivers may use a driving cushion. No attachments to the brake or gas pedal will be permitted.
- 5) Any bus used in competition shall have a mirror system that complies with Federal Motor Vehicle Safety Standard (FMVSS 111). **Mirrors shall be adjusted to provide the driver vision that would normally be required for the safe operation of the vehicle, getting the maximum field of vision and see at least 200 feet to the rear of the bus.** The driver shall not lower their head below the highest point of the steering wheel to adjust the mirrors. Mirrors can only be adjusted within the recommended mirror box standards and not adjusted to just see the ground. During vehicle preparation before competition, drivers may use markers on the ground to adjust the mirrors, such as small cones, rulers, etc. Mirrors shall not be adjusted after being set by the driver and in compliance with FMVSS 111. **Any mirror being adjusted after the driver has properly set their mirrors in bus preparation will result in disqualification from the Safety Competition.**
- 6) Failure to wear the seat belt properly will disqualify the driver. Placement of the shoulder harness behind the back is not permitted.
- 7) No smoking, eating or drinking beverages will be allowed during the driving part of the competition.
- 8) Drivers who fail to operate vehicle with headlights on during competition will be disqualified in the event(s) that the violation occurred. Daytime running lights are not acceptable.
- 9) No communication devices will be allowed on the bus during competition or to be operated while driving on the course. (AM, FM, Disk Player, 2-way, CB, cell phones, Bluetooth's, Blackberries, etc.) No electronic devices are not permitted during the driving competition.

10) Drivers must carry their School Bus Driver's License, Certification Card and Physical Card with them as if they were performing their daily work assignment.

11) Entry into the scoring area by a contestant or driving coach is not permitted.

❖ **The Competition Chairman will make the final determination on any disqualification.**

COMPETITION EVENTS

Each of the following sections includes the title of the event, a description of the event, layout instructions and the scoring procedures, including score sheets. The better understanding the contestants have of the information, the more successful they are likely to be during the competition. The sequence of events in this publication is not necessarily the sequence of events in the State Competition; nor will all the events necessarily be included.

SUMMARY OF POSSIBLE POINTS PEREVENT

	POINTS
General Knowledge Written Test	100
Vehicle Inspection Written Test	100
Offset Alley Event	50
Railroad Grade Crossing Right Turn Event	75
Straight Line Event	50
Diminishing Clearance Event	50
Back up Stall Event	50
Left Turn Event	50
Parallel Parking Event	50
Elementary Student Loading Event	75
Curb Line Event	50
Stop Line Event	25
Surprise Event(optional)	50
<i>TOTAL POSSIBLEPOINTS</i>	<i>775</i>

GENERAL KNOWLEDGE TEST / VEHICLE INSPECTION TEST

Total Possible Score 200 points

PURPOSE OF TEST

A school bus driver must be familiar with many laws and regulations, which he/she must faithfully observe. Experts in the school transportation industry have established these laws and regulations over many years. Contestants for the International Competition are encouraged to study their state/province rules, regulations and state laws for school bus drivers. Since many state/province laws and regulations vary, the following documents should be studied for best practices, established by national publications. The driver needs to be knowledgeable in the requirements by law in the daily inspection of the school bus, before transporting students. The test will evaluate the contestants' knowledge of laws regarding pre-trip inspection, as well as the knowledge of vehicle components and knowledge of "why" we check certain items.

Publications to study for the State Competition written test are as follows:

Texas School Bus Driver Certification Book (2018)

Available from the Texas Department of Public Safety Or Local Regional Education Services Center

Texas Commercial Motor Vehicle Drivers Handbook (Revised June 2014)

Available from the Texas Department of Public Safety

Operations Lifesaver Publication

INSTRUCTIONS

This test will be composed of a combination of 50 true or false or multiple-choice questions. These statements will be based on the publications mentioned above and on common sense. The examples below are of the general type that will be used.

Scoring

A total time limit of **30 minutes** has been established for the General Knowledge Test / Vehicle Inspection Test. Each test question answered incorrectly or not completed will result in a charge of four demerits for the writtentest.

Examples of Test Questions:

- | | True | False |
|---|-------|-------|
| 1. Smoking is permitted on a school bus when all students are off the bus | _____ | _____ |
| 2. A stop sign means: | | |
| a. Slow down to at least 10 mph | | |
| b. Slow down to at least 5 mph | | |
| c. Proceed cautiously if there is no traffic within 100 yards | | |
| d. Come to a complete stop | | |

OFFSET ALLEY EVENT

Maximum Score: 50Points

PURPOSE OF EVENT This event is designed to evaluate a driver's ability to handle the bus under actual, and simulated, driving conditions. An offset alley is set up to determine the contestant's ability to drive his/her bus through the offset lanes with a minimum of hesitation and without touching the barriers or flag tips.

This is a timed event: The contestant will be allowed two (2) minutes to complete the event. Time starts when the front bumper enters the first set of barricades and ends when the rear bumper exits the last set of barricades.

INSTRUCTIONS FOR ALL BUSES OVER 29 FEET Two or three sets of parallel barriers, 10 feet long, are set up with flag tips 10 feet apart. The right barrier flag tips of the first set are placed in a direct line with the left barrier flag tips of the second set (the offset barriers), or visa-versa. The distance between any two sets of barriers (from the end of the first set to the beginning of the second set) will be the length of the bus plus three feet for buses over 29 feet long.

INSTRUCTIONS FOR ALL BUSES 29 FEET OR UNDER Two or three sets of parallel barriers, 10 feet long, are set up with the flag tips 10 feet apart. The right barrier flag tips of the first set are placed in a direct line with the left barrier flag tips of the second set, or visa-versa. The distance between any two sets of barriers (from the end of the first set to the beginning of the second set) will be the length of the bus plus two feet for buses 29 feet long or under.

The direction of the offset (left or right) will be determined by the Competition Director.

SCORING

The following demerits will be charged for touching of a flag tip:

1 flag tip	(7 demerits)
2 flag tips	(21 demerits)
3 flag tips	(42 demerits)
4 flag tips	(50 demerits)

For each time of stopping the forward motion of the bus, eight (8) demerits will be charged (not to exceed 16 demerits):

1 time	(8 demerits)
2 times	(16 demerits)

Backing the bus during event	(50 demerits)
Touching any barrier	(50 demerits)

Failure to:

Wear a seat belt	(50 demerits)
Keep door closed during event	(50 demerits)
Drive with headlights on	(50 demerits)
Complete event within the time limit	(50 demerits)

OFFSET ALLEY TEST

Contestant# _____

Event Judge _____

Maximum Score: 50 points

Demerits: _____

Score Earned: _____

FAILURE TO:

		DEMERITS
Complete event in the 2 minute time limit	(50 demerits)	_____
Drive with the headlightson	(50 demerits)	_____
Wear seat belt properly	(50 demerits)	_____
Keep door closed during event	(50 demerits)	_____

Each instance of stopping forward motion of the bus (8) Max. of (16 demerits) _____

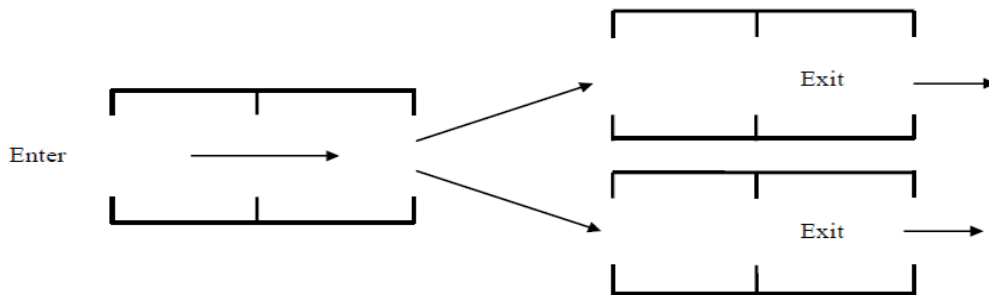
For each flag tip touched (1=7) (2=21) (3=42) (4=50) Max. of (50 demerits) _____

Backing during the event (50 demerits) _____

Vehicle touches a barrier (excluding base) (50 demerits) _____

Actual Time _____ Min. _____ Sec.

Indicate which flag tip or barrier has been touched

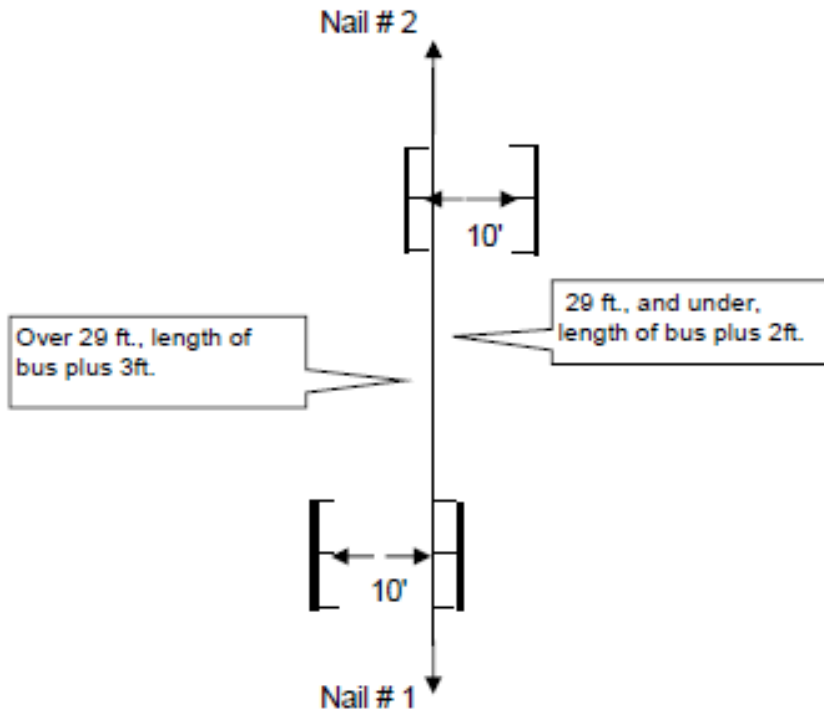


Setup Tools for Offset Alley:

- ▣ Heavy-duty claw hammer
- ▣ 1½ inch masonry nails (one box)
- ▣ Two 25 ft. tape measures
- ▣ One 100 ft. tape measure
- ▣ One 1000 ft. roll of nylon string
- ▣ One box of yellow marker crayons
- ▣ Carpenter's Square
- ▣ Four to Six 10' barriers w/flag tips
- ▣ Other

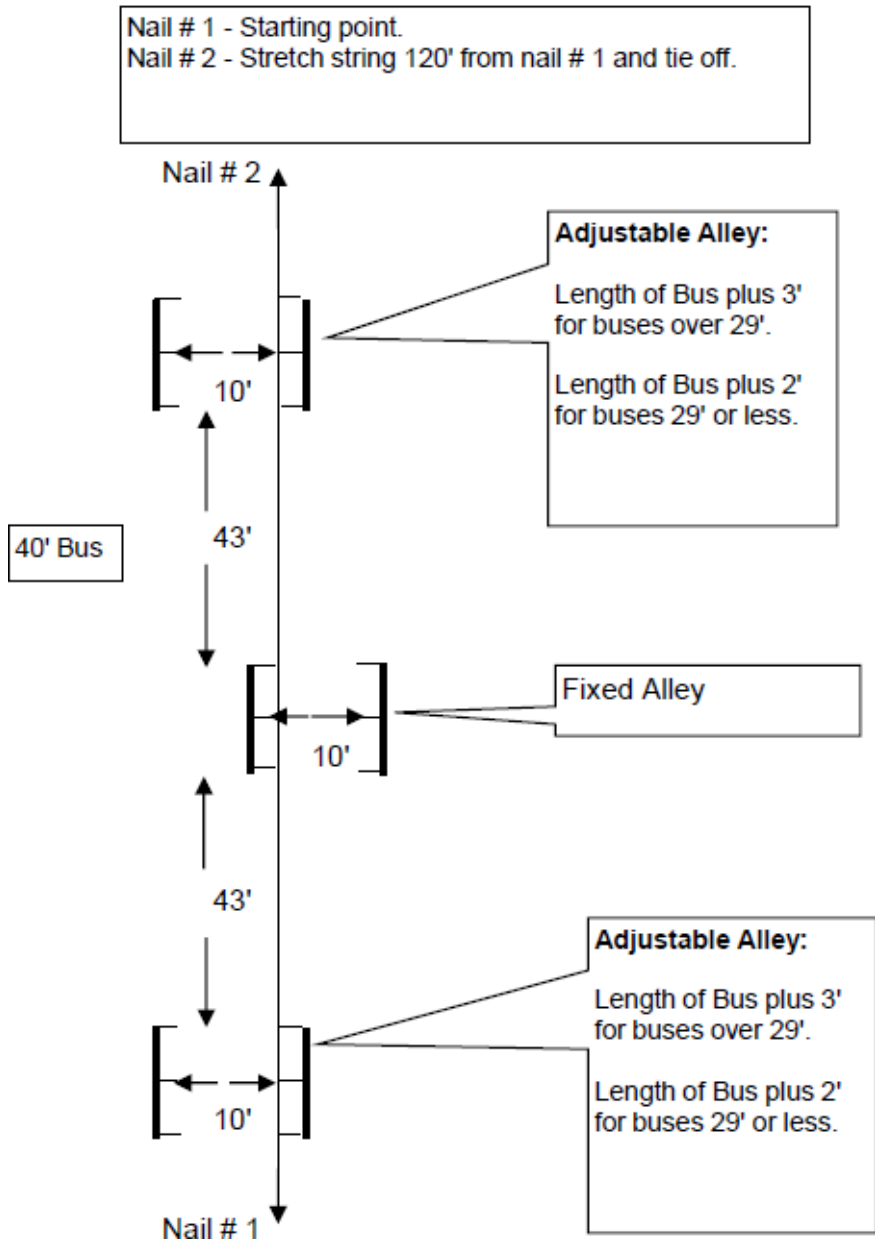
Single Offset Alley Layout

Nail # 1 - Starting point.
Nail # 2 - Stretch string 120' from nail # 1 and tie off.



LAYOUT & DIRECTIONS:

Double Offset Alley Layout



RXR GRADE CROSSING – RIGHT TURN EVENT

Maximum Score: 75 points

PURPOSE OF EVENT

Making a right turn at a railroad crossing represents one of the greatest hazards insofar as mass casualties or fatalities are concerned. This test evaluates the driver's common sense, degree of care and knowledge of the laws, rules and regulations when required to maneuver a school bus across railroad tracks at an intersection. The test also evaluates the driver's ability to make a right turn and determine the clearance of the tracks with the vehicle.

INSTRUCTIONS

A simulated railroad crossing is laid out as follows:

- A two lane roadway crossing one set of railroad tracks located approximately 50 feet from an intersection.
- Railroad grade crossing signs will be properly positioned to the right side of the roadway in which the driver will make the approach to the intersection.
- The driver will approach the railroad grade crossing giving the correct direction signal and stop as required by law.
- Upon checking the tracks on both directions, the driver will activate the correct turn signal and proceed. The driver shall continue to steer the bus in a straight line until ready to execute the right turn. The point at which the turn begins is determined by the driver's ability to judge a predetermined relationship with the corner (turning point). The turn must be executed without touching the curb line.

This is a timed event: The contestant will be allowed 15 seconds to complete the right turn. The time will start when the right rear tire enters or passes the front edge of the entry scoring template and will stop when the right rear tire leaves or passes the rear edge of the recovery scoring template.

The turning radius will be determined on the day of competition.

Scoring

Drivers are judged from the time they approach the crossing until they complete the right hand turn. They will be checked on use of directional signals and mirrors, stopping the bus, opening the door and window, checking the tracks in both directions, driving across the railroad tracks, etc. Recommended procedures outlined in "Operation Lifesaver" publications will be used for the basis of scoring:

APPROACH THE RXR GRADE CROSSING AND RIGHT TURN:



FAILURE TO

Complete the event	(75 demerits)
Drive with headlights on or not wearing seatbelt	(75 demerits)
Properly use turn signals during the event	(25 demerits)
Stop between 15 to 50 feet from the nearest rail	(75 demerits)
Stop, open door or window (if applicable) at RXR grade crossing	(75 demerits)
Check the tracks in both directions and ensure that it is safe to cross	(75 demerits)
Check left outside mirror(s) before crossing the tracks	(10 demerits)
Check right outside mirror(s) before crossing the tracks	(10 demerits)
Check inside rearview mirror before crossing the tracks	(10 demerits)
Close entrance door	(25 demerits)
Clear back of bus by at least 15 feet from the nearest rail after crossing the tracks	(75 demerits)

DEMERITS

RIGHT TURN

THIS WILL BE A TIMED EVENT. The contestant shall be allowed 15 seconds to complete the right turn. The time will start when the right rear dual enters or passes the front edge of the entry score template and will end when the right rear tire enters or passes the rear edge of the recovery scoring template.

Scoring

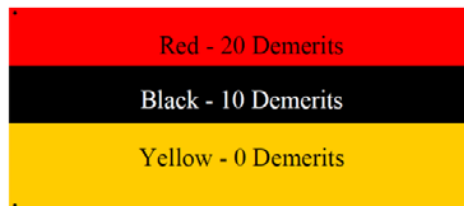
Scoring will be based on the method in which the driver enters and recovers from the turn. For scoring purposes, **the outer edge of the tire's tread will be used.** The right rear outside tire must pass through the entire scoring template at the beginning and completion of the turn. Measuring from the curbside of each template, the following demerits shall be charged depending on the travel path of the scoring tire:

- The tire enters and exits the scoring template in the yellow (zero) 0 demerits
- The tire enters and/or exits the scoring template in the black (ten) 10 demerits
- The tire enters and/or exits the scoring template in the red (twenty) 20 demerits
- The tire misses the front edge of the scoring template (twenty five) 25 demerits

The highest value of demerits will be given based on the tires travel through the templates

Red	9" to 12"	20 demerits
Black	6" to 9"	10 demerits
Yellow	0" to 6"	0 demerits

The tire "does not" pass through the entire template 25 demerits



Improper use of 8 light "School Bus Flashers"	(25 demerits)
Backs up during event	(75 demerits)

RXR GRADE CROSSING – RIGHT TURN TEST

Contestant # _____ Event Judge _____

Maximum Score: 75 points
 Demerits: _____
 Score Earned: _____

APPROACH THE RXR GRADE CROSSING:

FAILURE TO:		DEMERITS
Complete the event	(75 demerits)	_____
Drive with headlights or not wearing seatbelt	(75 demerits)	_____
Properly use turn signals during the event	(25 demerits)	_____
Stop between 15 to 50 feet from the nearest rail	(75 demerits)	_____
Stop, open door or window (if applicable) at RXR grade crossing	(75 demerits)	_____
Check the tracks in both directions and ensure that it is safe to cross	(75 demerits)	_____
Check left outside mirror(s) before crossing the tracks	(10 demerits)	_____
Check right outside mirror(s) before crossing the tracks	(10 demerits)	_____
Check inside rearview mirror before crossing the tracks	(10 demerits)	_____
Close entrance door	(25 demerits)	_____
Clear back of bus by at least 15 feet from the nearest rail after crossing the tracks	(75 demerits)	_____

ENTERING TURN

THIS WILL BE A TIMED EVENT. The contestant shall be allowed 15 seconds to complete the turn. The time will start when the right rear dual enters or passes the front edge of the entry score template and will end when the right rear tire enters or passes the rear edge of the recovery scoring template.

Scoring will be based on the method in which the driver enters and recovers from the turn. For scoring purposes, **the outer edge of the tire's tread will be used.** The right rear outside tire must pass through the entire scoring template at the beginning and completion of the turn.

Direction of Travel



Tire travel through entire scoring template

(Off of Template)		(25 demerits)	_____
Red	9" to 12"	(20 demerits)	_____
Black	6" to 9"	(10 demerits)	_____
Yellow	0" to 6"	(0 demerits)	_____

RECOVERING FROM TURN

For scoring purposes, the outer edge of the tire's tread will be used. The right rear outside tire must pass through the entire scoring template at the beginning and completion of the turn

Direction of Travel



Tire travel through entire scoring template

(Off of Template)

Red 9" to 12"

Black 6" to 9"

Yellow 0" to 6"

(25 demerits)

(20 demerits)

(10 demerits)

(0 demerits)

Improper use of 8 light "School Bus Flashers"

(25 demerits)

Backs up during event

(75 demerits)

Stopping while in turn

(50 demerits)

(More than 15 seconds)

(50 demerits)

Shifting gears manually while crossing tracks

(75 demerits)

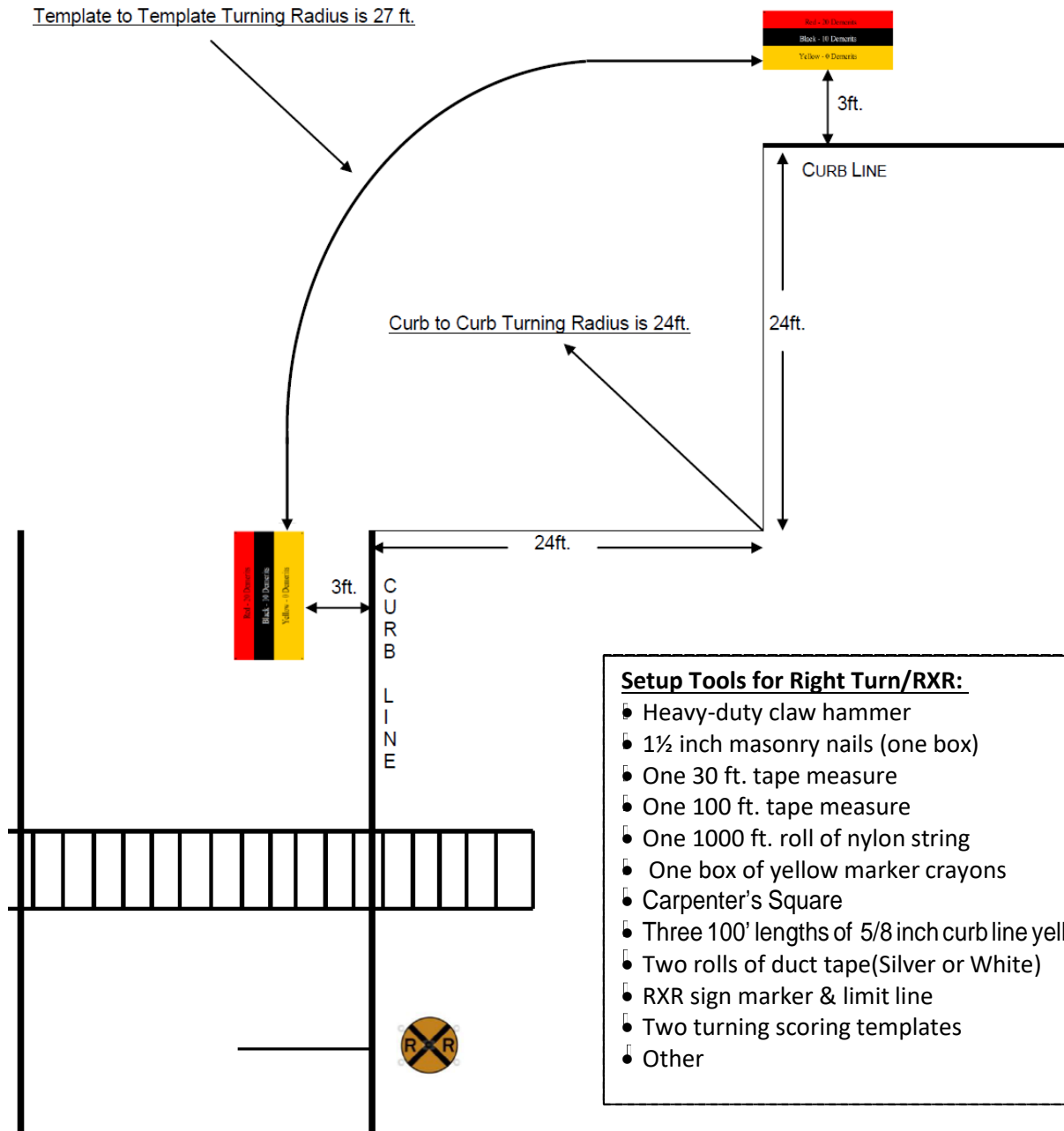
Bus stops on tracks

(75 demerits)

ACTUAL TIME: _____ / _____
Min. Sec.

LAYOUT & DIRECTIONS:

**RXR Grade Crossing - Right Turn Template to Template Set-Up
SAMPLE**



STRAIGHT LINE EVENT

Maximum Score: 50points

PURPOSE OF EVENT

To determine the driver's ability to maneuver the right wheels of school bus over a straight path of a given width.

INSTRUCTIONS

The right wheels of the bus must travel the indicated path without striking or moving the markers with any wheel. The bus must be operated in a continuous forward motion. The distance between the markers is the width of the rear duals plus three (3) inches. Measure all right side dual widths. The distance between each set of Tennis Balls is 25 ft. with 4 sets of balls.

Scoring

For each instance of jerky or uneven movement of bus (Maximum of 20 demerits)	(2 demerits)
For each instance of stopping forward motion of bus (Maximum of 20 demerits)	(4 demerits)
Each instance where wheel touches or knocks a tennis ball off (Maximum of 50 demerits)	(5 demerits)
Drives either side of pair of tennis ball markers (Maximum of 50 demerits)	(10 demerit)
Failure to complete the event	(50 demerits)
Failure to wear seatbelt	(50 demerits)
Failure to have door closed during event	(50 demerits)
Backing up during event	(50 demerits)
Failure to drive with headlights on	(50 demerits)

STRAIGHT LINE TEST

Contestant# _____

Event Judge _____

Maximum Score: 50 points
 Demerits: _____
 Score Earned: _____

DEMERITS

Each instance of jerky or uneven movement of bus (2) (2) (2) (2) (2) (2) (2) (2) (2) (2) <i>(max of 20 demerits)</i>	(2 demerits)	_____
Each instance of stopping forward motion (4) (4) (4) (4) (4) <i>(max of 20 demerits)</i>	(4 demerits)	_____
Each instance where wheel touches or knocks tennis ball off (5) (5) (5) (5) (5) (5) (5) (5) (5) (5) <i>(max of 50 demerits)</i>	(5 demerits)	_____
Drives to either side of pair of tennis ball markers (10) (10) (10) (10) (10) <i>(max of 50 demerits)</i>	(10 demerits)	_____
Failure complete the event	(50 demerits)	_____
Failure wear seat belt	(50 demerits)	_____
Failure keep door closed during event	(50 demerits)	_____
Failure to drive with headlights on	(50 demerits)	_____
Back up during the event	(50 demerits)	_____



Judges mark which balls were hit

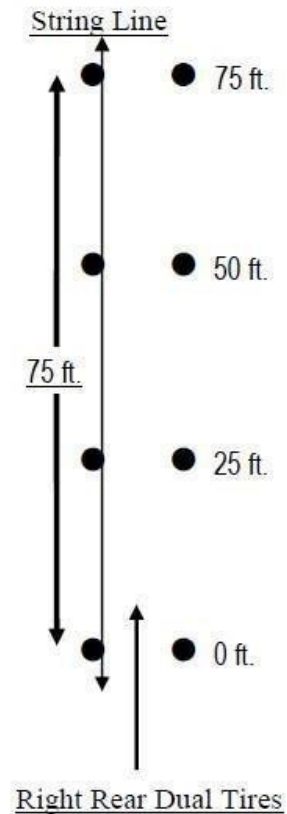
LAYOUT & DIRECTIONS:

DIRECTIONS:

1. Measure a 75 ft. straight line and string.
2. Mark the line in intervals of 25 ft. with crayon or chalk.
3. Place a set of tennis balls on holders every 25 ft. Set the base of the ball holder on the outside edge of the string line.
4. Secure the measurement of the right rear duals of all vehicles used in competition. The measurement shall be from bulge to bulge. Tire sizes must be the same type if more than one vehicle type is used.
5. Use the measurement of the duals plus 3" to determine distance between balls.
6. Measure the alignment of the tennis balls from the inside edge of the tennis ball to the inside edge of the other tennis ball.
7. Make a visual check to be sure that there is a perfect straight line with the four sets of tennis balls.
8. Mark the location of the tennis ball holders with crayon or chalk.

Setup Tools for Straight Line:

- Heavy-duty claw hammer
- 1½ inch masonry nails (one box)
- One 12 ft. tape measure
- One 100 ft. tape measure
- One 1000 ft. roll of nylon string
- One box of yellow marker crayons
- Carpenter's Square
- Ten tennis balls
- Ten tennis ball holders
- Other



DIMINISHING CLEARANCE EVENT

Maximum Score: 50 points

PURPOSE OF TEST:

The contestant is required to drive the bus in a straight line with diminishing clearances while driving in a smooth and continuous manner.

INSTRUCTIONS:

For the purpose of conducting this test, five pairs of parallel standards are set up. Each pair of standards, however, is parallel to the next. The distance between each pair of standards is 25 feet. The width of each pair varies as follows:

First pair of standards	Width of bus plus 10 inches
Second pair of standards	Width of bus plus 8 inches
Third pair of standards	Width of bus plus 6 inches
Fourth pair of standards	Width of bus plus 4 inches
Fifth pair of standards	Width of bus plus 2 inches

Note: The measurement is from flag tip to flag tip. The alley is set up to allow for the course to diminish equally on both sides.

Scoring

Contestants will be scored on the following:

Each instance of jerky or uneven movement (Maximum of 10 demerits)	(2 demerits)
Each instance of stopping forward movement of bus (Maximum of 20 demerits)	(4 demerits)
Each instance of bus touching flag tips (Maximum of 50 demerits)	(10 demerits)
Striking standard with bus	(50 demerits)
Failure to complete the event	(50 demerits)
Failure to wear seat belt	(50 demerits)
Backing up during the event	(50 demerits)
Keep door closed during event	(50 demerits)
Failure to drive with headlight on	(50 demerits)

DIMINISHING CLEARANCE TEST

Contestant# _____

Event Judge _____

Maximum Score: 50 points

Demerits: _____

Score Earned: _____

DEMERITS

Each instance of jerky or uneven movement of bus

(2) (2) (2) (2) (2) *(max of 10 demerits)* (2 demerits) _____

Each instance of stopping forward motion of bus

(4) (4) (4) (4) (4) *(max of 20 demerits)* (4 demerits) _____

Each instance of bus touching flag tip

(10) (10) (10) (10) (10) *(max of 50 demerits)* (10 demerits) _____

Bus strikes flag standard

(50 demerits) _____

Backing up bus during event

(50 demerits) _____

Failure to:

Complete the event

(50 demerits) _____

Wear Seat Belt

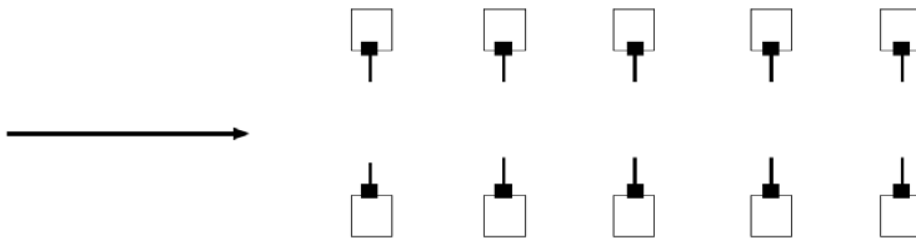
(50 demerits) _____

Keep door closed during event

(50 demerits) _____

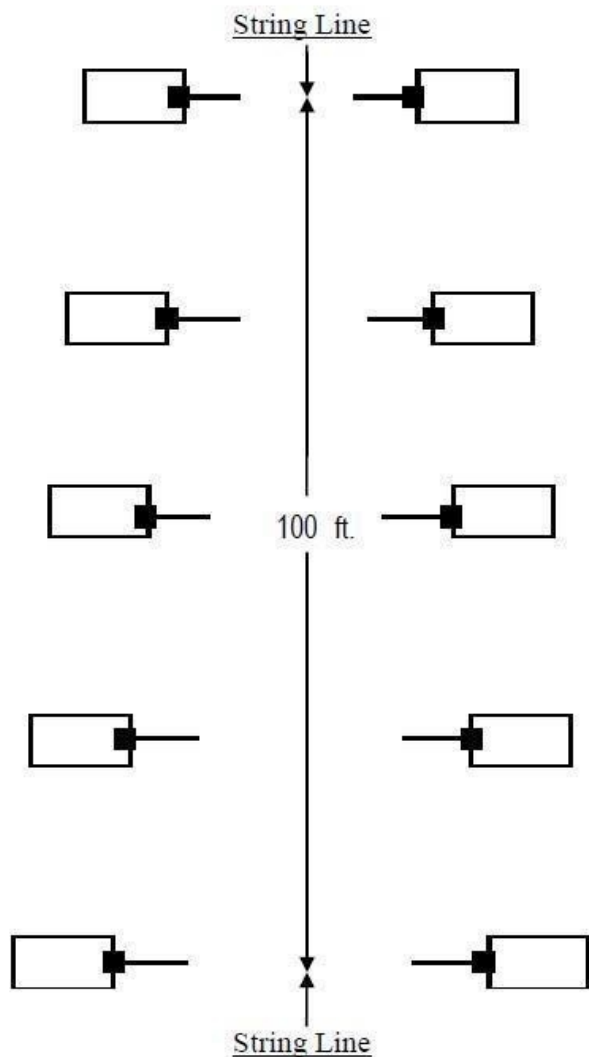
Drive with headlights on

(50 demerits) _____



LAYOUT & DIRECTIONS:

1. Measure a distance of 100'
2. Mark the measurement at 25' intervals.
3. Place a straight line down with string. Stretch tight.
4. Secure width of buses to be used in competition. Consider rub rails, rubber around tire wells or any other object that will hit the standards such as mirror brackets, etc.
5. Determine the measurement to be used at each diminishing clearance standard.
6. Measure from the center line out to the end of the flag or standard on each side to equal the total measurement. To make sure the measurement is correct, use plumb bob from tip of flag to ground where measurement was made.
7. Do a visual check to make sure that you have a diminishing alley from the perspective of the contestant entering the offset.
8. Mark bases of the standards with crayons or chalk.



- Setup Tools for Diminishing Clearance**
- Heavy-duty claw hammer
 - 1½ inch masonry nails (one box)
 - One 50 ft. tape measure
 - One 100 ft. tape measure
 - One 1000 ft. roll of nylon string
 - One box of yellow marker crayons
 - Carpenter's Square
 - Plumb bob
 - 10 diminishing clearance standards w/flag arms (36" high minimum)
 - Other

1 st pair of standards	With of bus plus 10 inches
2 nd pair of standards	With of bus plus 8 inches
3 rd pair of standards	With of bus plus 6 inches
4 th pair of standards	With of bus plus 4 inches
5 th pair of standards	With of bus plus 2 inches

BACK UP STALL EVENT

Maximum score: 50points

PURPOSE OF THE TEST

This test is designed to evaluate the driver's ability to back the bus into a stall. A stall the width of the bus plus two (2) feet is provided into which the driver must back their bus into without touching the upright standards and without crossing over the stall limit lines. Depth perception is tested by penalizing the driver for backing up too close to the rear barrier, or parking the bus too far from the rear barrier, or not having the bus centered in the stall (front and rear).

INSTRUCTIONS

Two parallel yellow ropes on the ground the width of the bus plus two (2) feet identify each stall. Each front corner of the stall will be marked by upright standards that will not interfere with the backing of the bus. In order to limit the driver's maneuvering room, a front wheel limitation line will be placed on the ground perpendicular to the stall parallel stall lines. The distance from the front stall standards to the wheel limitation line will be as follows:

Transit	Length of bus plus 1'
Conventional	Length of bus plus 4'
Small Bus	Length of bus plus 4' (mirror brackets must higher than 48")

The approach to the back-up stall will be made from the right side only. A three (3) minute time limit starts when the front bumper passes the first upright standard. The bus must be parked in the stall, ***with the parking brake set, and the horn sounded, within the three-minute time limit.*** Each contestant will be permitted one back-up before demerits are charged for excessive backing.

Upon completion of this event, the bus should be parked as near to the center of the stall as possible. Centering of the bus in the stall will be determined by the relationship of the **center of the front and rear bumpers** the center of the stall, but with only the farthest distance off center (**front or back**) being used to compute demerits.

There will be a one-foot free zone four to five feet in front of the rear barriers in the center of the stall and demerits will be charged if the bus is parked ahead or behind the free zone. After the bus is measured, the contestant will exit the stall between the upright standards.

Scoring

The following are demerits for this event:

Tire tread touches the wheel limitation line (50 demerits)

Bus touches the front upright standards (50 demerits)

Tire touches stallsidelines (50 demerits)

Touching the rear barrier (50 demerits)

Failure to park the bus, set parking brake and sound the horn within the 3-minute time limit. (50 demerits)

Failure to pull out between the front upright standards (50 demerits)

Failure to keep door closed (50 demerits)

Failure to wear seatbelt (50 demerits)

Failure to drive with headlights on (50 demerits)

Failure to complete event (50 demerits)

Per instance of forward motion after the first back-up (not to exceed 42 demerits) (06 demerits)

Bus parked more than 1 inch off of the centerline, front or rear (greatest only) (02 demerits)

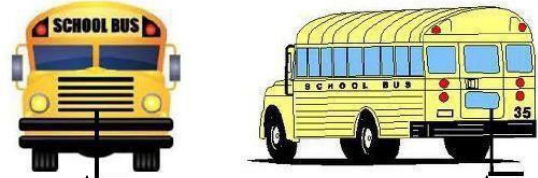
Bus parked forward of 1' free zone and each 6" or fraction thereof, (not to exceed 50 demerits) (05 demerits)

Bus parked behind 1' free zone and each 6" or fraction thereof (not to exceed 50 demerits) (10 demerits)

LAYOUT & DIRECTIONS:

Setup Tools for Backup Stall

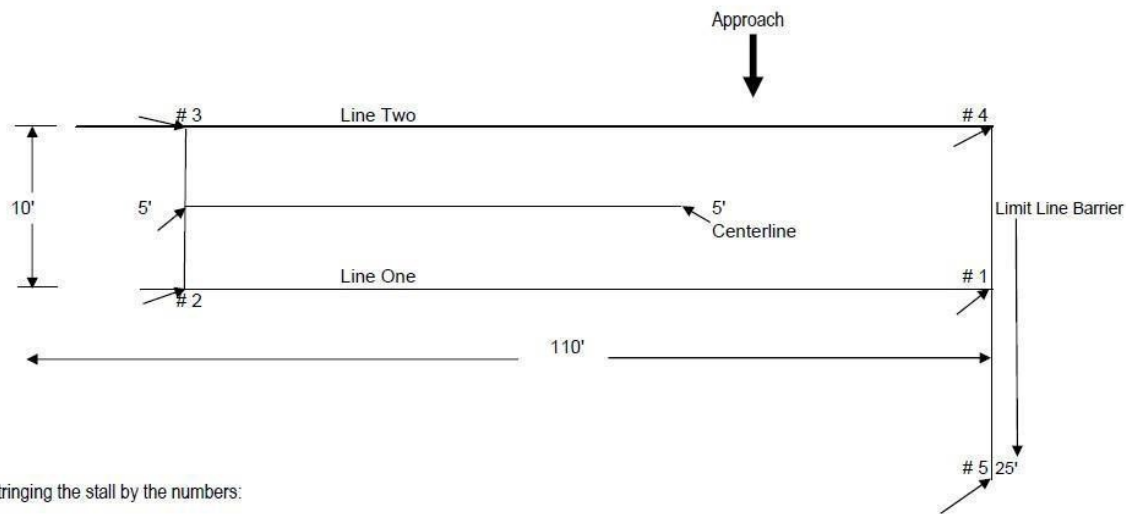
- ▯ Heavy-duty claw hammer
- ▯ 1½ inch masonry nails (one box)
- ▯ One 30 ft. tape measure
- ▯ One 100 ft. tape measure
- ▯ Two 1000 ft. roll of nylon string
- ▯ One box of yellow marker crayons
- ▯ One roll of duct tape (Silver or Black)
- ▯ Carpenter's Square
- ▯ Four 100' lengths of 5/8 inch curb line yellow rope
- ▯ Two 25' lengths of 5/8 inch limit line yellow rope
- ▯ Two backup stall equipment setups.
- ▯ Two timer clocks
- ▯ Other



Measure from the center of the front and rear bumper only.

(DO NOT MEASURE FROM THE CROSSING CONTROL ARM.)

Back-Up Stall - 10 Foot Wide Right Side of Bus Approach



Note: Stringing the stall by the numbers:

Nail # 1 - Stall layout starting point.

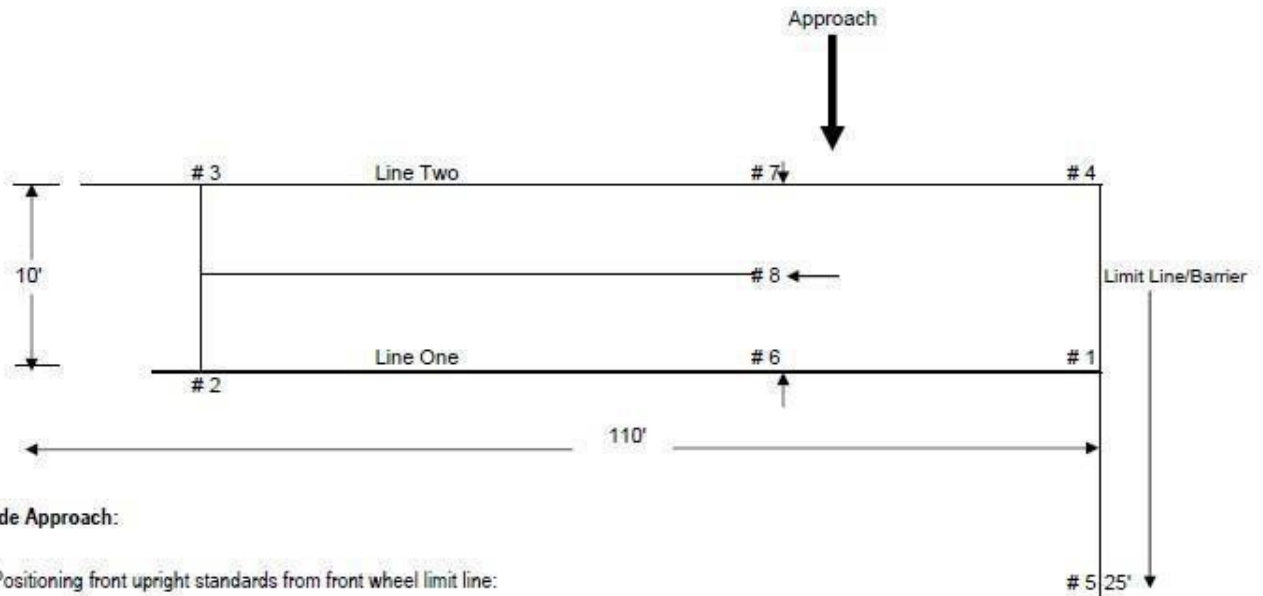
Nail # 2 - Stretch the string 100' and nail # 2.

Nail # 3 - Measure 10' across, using a 90 degree carpenters square, square the stall using the string and tape measure between # 2 and # 3, when squared, nail # 3. Measure 5' and place nail in center of stall.

Nail # 4 - Stretch the string 100', square the stall using the string between # 1 and # 2, measure 10' and square the stall, nail # 4.

Nail # 5 - Stretch the string 35' aligning with the outside edge of # 1, nail and tie off.

Back-Up Stall - 10 Foot Wide Right Side of Bus Approach

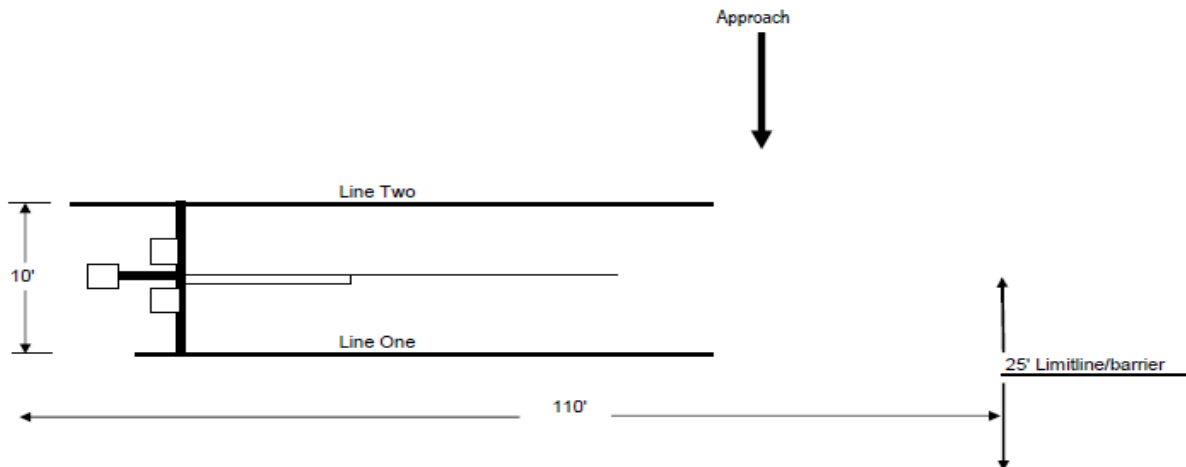


Right Side Approach:

Note: - Positioning front upright standards from front wheel limit line:

- Mark # 6 - Measure from # 1 using the length of the shortest bus plus 1' to 4' depending on the bus type and place # 6.
- Mark # 7 - Measure from # 4 using the length of the shortest bus plus 1' to 4' depending on the bus type and place # 7.
- Nail # 8 - Measure from the outside edge of # 6 to the outside edge of # 7. Nail # 8 @ 5' the center of the stall.

Back-Up Stall - 10 Foot Wide Right Side of Bus Approach



LEFT TURN EVENT

MAXIMUM SCORE 50 POINTS

PURPOSE OF EVENT: This event is designed to determine the driver's ability to properly prepare for, and execute, a left turn.

INSTRUCTIONS: A sign indicating "Left Turn" will be placed approximately 150 feet from the beginning of the turn. A lane will be provided in which the driver will make the approach to the corner. The lane is marked on the left with a curb line 50 feet long. The driver will approach the corner giving the correct directional signal at least 100 feet from the turn, as required by law. Each contestant shall continue to steer the bus in a straight line until ready to execute the turn. The point at which the turn begins is determined by the driver's ability to judge a predetermined relationship with the corner (turning point). When this point is reached, the bus should be steered the left. When properly executed, this method of turning left will cause the bus to safely complete the left turn. The bus may not be stopped during this event.

This is a timed event. The contestant will be allowed 15 seconds to complete the event. The time will start when the left rear tire enters or passes the front edge of the entry scoring template, and will end when the left rear tire leaves or passes the rear edge of the recovery scoring template.

The turning radius will be determined on the day of competition.

SCORING: Scoring will be based on the method in which the driver enters and recovers from the turn. For scoring purposes, **the outer edge of the left outside tire tread will be used.** The left rear outside tire must pass through the entire scoring template at the beginning and completion of the turn. The highest value of demerits will be given based on the tires travel through the entire template. Should the tire enter or leave off the inner or outer side of the template at any time it is to be considered off the template. There is a maximum of 25 demerits per scoring template.

Measuring from the curbside of each template, the following demerits shall be charged depending on the travel path of the scored tire through the entire template.

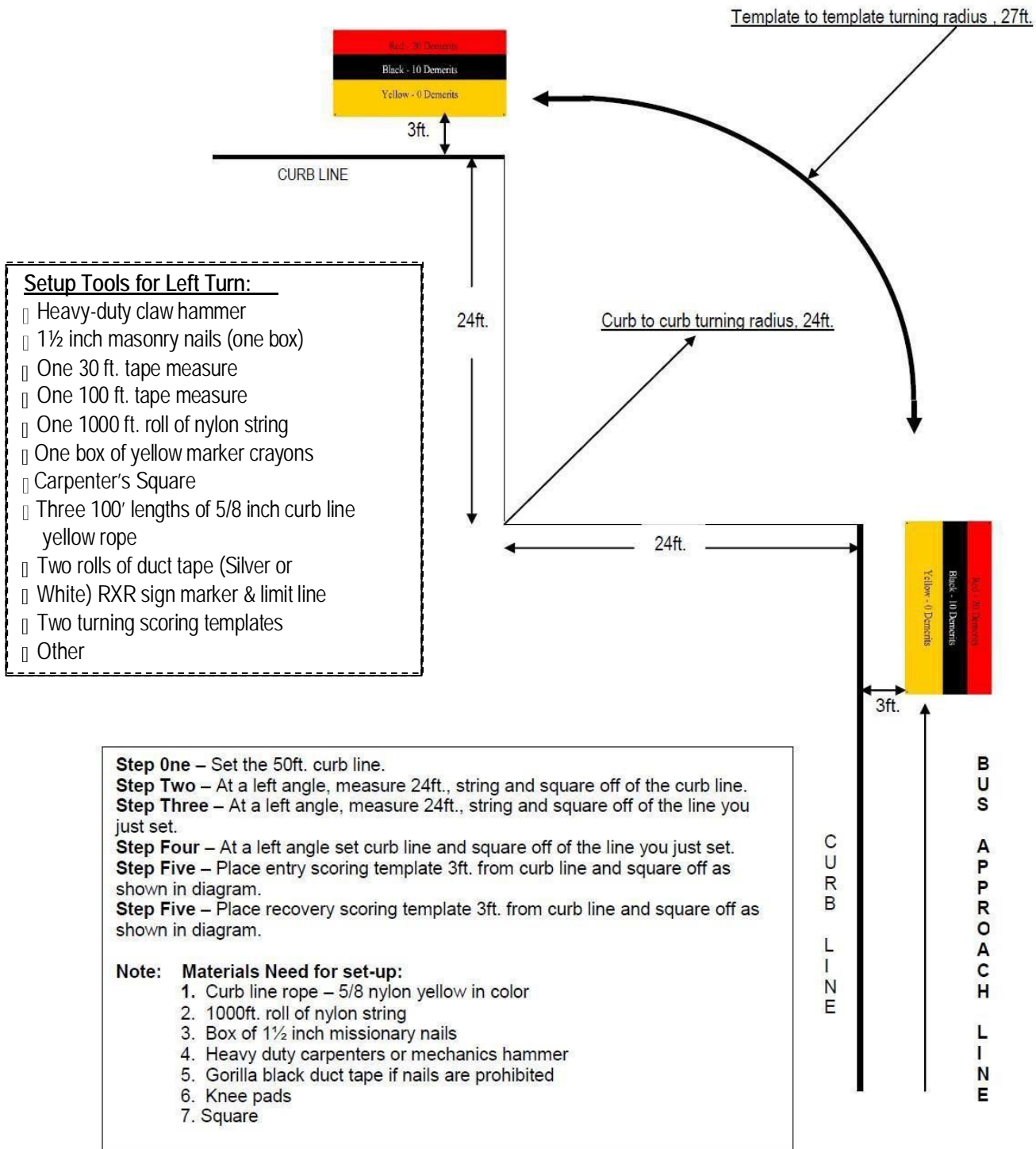
Red - 20 Demerits	Yellow	0" to 6"	(0 demerits)
Black - 10 Demerits	Black	6" to 9"	(10 demerits)
Yellow - 0 Demerits	Red	9" to 12"	(20 demerits)
	(Off of Template)		(25 demerits)

Additional demerits as follows:

- 10 demerits** Failure to properly activate the left directional signal
- 10 demerits** Failure to cancel the left directional signal
- 5 demerits** For each instance of stopping the bus
- 50 demerits** If any tire touches the curb line at anytime
- 50 demerits** For backing the bus during the event
- 50 demerits** Failure to complete turn within 15seconds
- 50 demerits** Failure to keep door closed during the event

LAYOUT & DIRECTIONS:

Left Turn Template to Template Set-Up



PARALLEL PARKING EVENT

PURPOSE OF TEST:

This event is designed to evaluate the contestant's ability to park the bus parallel to a curb without touching barriers placed at both ends of the parking area, without touching the curb and within 18 inches of the curb. It is also designed to judge the contestant's ability to drive the bus out of the parking area without touching the barriers or the curb.

INSTRUCTIONS:

A section of rope will represent the curb, unless a natural curb is available. Two barriers will be set at right angles to the curb line, extending out eight feet from the curb. The distance between the two barriers will be:

1. For all transits, the length of the bus plus six feet.
2. For all conventional and small buses, the length of the bus plus seven feet. **Mirror brackets on small buses must be higher than 48".**

A measurement will be made to determine how close the bus is parked to the curb line, and for determining the number of demerits to be charged. This is a timed event. The contestant is allowed three (3) minutes from the time the front bumper of the bus first passes the rear barrier of approach. The contestant must have the bus parked, set parking brake, and sound the horn within the three (3) minute limit.

Backing in: The contestant will be permitted to back up twice before demerits are charged.

Pulling out: The contestant will be permitted to back up twice before demerits are charged.

Scoring: Scoring will be based on the method in which the driver enters and exits a stall.

Failure to park the bus, set parking brake and sound the horn within the three (3) minute time limit	(50 demerits)
Bus touching front or rear barrier at anytime	(50 demerits)
Failure to wear seatbelt	(50 demerits)
Failure keep the door closed during event	(50 demerits)
Failure to drive with headlights on	(50 demerits)
Failure to complete event	(50 demerits)

Score for Backing In:	(50 demerits)
Failure to use right turn signal before entering	(50 demerits)
Tire tread touches curb line	(50 demerits)
For each instance of backing more than twice (not to exceed 25 demerits)	(5 demerits)

Scoring for Zones parallel to curb:

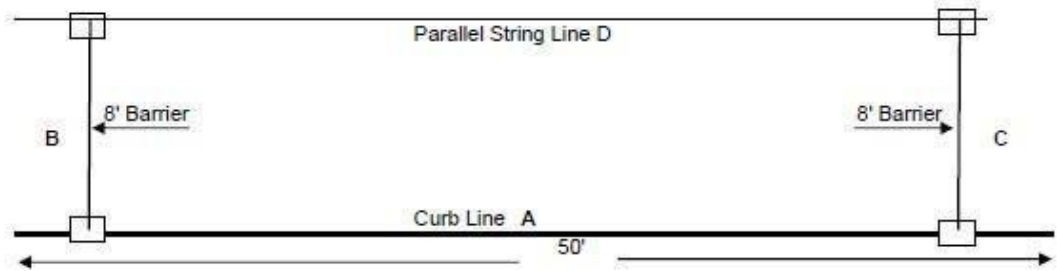
Zone 1	0" to 3" from curb	(0 demerits)
Zone 2	3" to 6" from curb	(3 demerits)
Zone 3	6" to 9" from curb	(6 demerits)
Zone 4	9" to 12" from curb	(9 demerits)
Zone 5	12" to 15" from curb	(12 demerits)
Zone 6	15" to 18" from curb	(15 demerits)
Over 18" from the curb		(50 demerits)

Scoring for Pulling Out:

Failure to use left turn signal	(50 demerits)
Each instance for backing more than twice (not to exceed 25 demerits)	(5 demerits)
Tire tread touches curb line	(50 demerits)
Failure to cancel directional signal	(10 demerits)

LAYOUT & DIRECTIONS:

- Setup Tools for Parallel Parking Stall**
- ▣ Heavy-duty claw hammer
 - ▣ 1½ inch masonry nails (one box)
 - ▣ One 12 ft. tape measure
 - ▣ One 50 ft. tape measure
 - ▣ One 1000 ft. roll of nylon string
 - ▣ One box of yellow marker crayons
 - ▣ Carpenter's Square
 - ▣ 50' of 5/8 inch curb line yellow rope
 - ▣ Other



DIRECTIONS:

1. - Layout the 50' rope curb line "A".
2. - Align the outside edge of the 8' barriers "B" & "C" on curb line "A" at a 90 degree angle.
3. - Layout a parallel string line "D", 8' from curb line "A" at a 90 degree angle to barrier B and C.
4. - Measure and mark along curb line "A" and parallel line "D" the appropriate stall lengths.

Settings for bus stall lengths:

Transit Bus.....	Length of bus plus 6'
Conventional Bus.....	Length of bus plus 7'
Van type Bus.....	Length of bus plus 7'

5. - Move barrier "B" as necessary for appropriate bus length.

ELEMENTARY STUDENT LOADING EVENT

Maximum Score: 75 points

PURPOSE OF TEST

Loading of elementary students can be one of the most life threatening maneuvers a school bus driver performs. This test is designed to evaluate the driver's alertness to the loading of elementary passengers and to determine their ability to remember and perform several other important functions incidental to such loading. Such items include proper use of directional signals, yellow warning lights, mirrors, red crossover lights and the stop arm.

INSTRUCTIONS

A rope to represent the edge of roadway or curb will mark the loading area. For loading passengers the contestant will pull into the loading area. The contestant will utilize the yellow warning lights (100 feet) prior to entering the loading zone. The contestant will then use the red crossover lights and stop arm when stopped to load students.

During the maneuver the contestant will be judged for mirror use before and after the stop, proper use of lights, smooth stopping, lane position while stopped, transmission in neutral with parking brake set before door is opened. The contestant must stop at least 10 feet back from the student, but not more than 15 feet, and out at least 6 ft away from student.

Scoring

Failure to wear seat belt	(75 demerits)
Failure to complete event	(75 demerits)
Backing up the bus during event	(75 demerits)
Failure to place bus in neutral/park and set parking brake before door is opened	(75 demerits)
Failure to activate yellow lights	(75 demerits)
Failure to activate red crossover lights	(75 demerits)
Failure to deactivate red crossover lights	(75 demerits)
Failure to drive with headlights on	(75 demerits)
Failure to properly use turn signals on entry and exit	(75 demerits)
Failure to perform proper mirror checks (5 points for each mirror)	(25 demerits)
Failure to keep door closed in motion	(25 demerits)
Failure to perform mirror check after stop and before moving	(25 demerits)
Bus stopped closer than 10 feet from student (back from student)	(10 demerits)
Bus parked more than 15 feet from student(back from student)	(10 demerits)
Bus stopped closer than 6 feet away from student(back from student)	(10 demerits)

ELEMENTARY STUDENT LOADING EVENT

Contestant# _____

Event Judge _____

Maximum Score: 75 points

Demerits: _____

Score Earned: _____

DEMERITS

Failure to perform proper mirror checks (5-point mirror checks)	(25 demerits)	_____
Failure to properly use turn signals on entry and exit of loading zone	(75 demerits)	_____
Failure to activate yellow warning lights	(75 demerits)	_____
Failure to wear seat belt	(75 demerits)	_____
Failure to complete events	(75 demerits)	_____
Backing up the bus during event	(75 demerits)	_____
Failure to drive with headlights on	(75 demerits)	_____
Keep the door closed while in motion	(25 demerits)	_____
Jerky or sudden stops	(10 demerits)	_____
Bus stopped closer than 10 feet from student (back from student)	(10 demerits)	_____
Bus stopped more than 15 feet from student (back from student)	(10 demerits)	_____
Failure to stop at least 6 ft. away from student (back from student)	(10 demerits)	_____
Failure to set parking brake and place vehicle in neutral/park before door is opened	(75 demerits)	_____
Failure to activate red crossover lights and stop arm	(75 demerits)	_____
Failure to deactivate red crossover lights and stop arm if not automatically cancelled by closing door	(75 demerits)	_____
Failure to perform proper mirror check (5 count mirror check)	(50 demerits)	_____

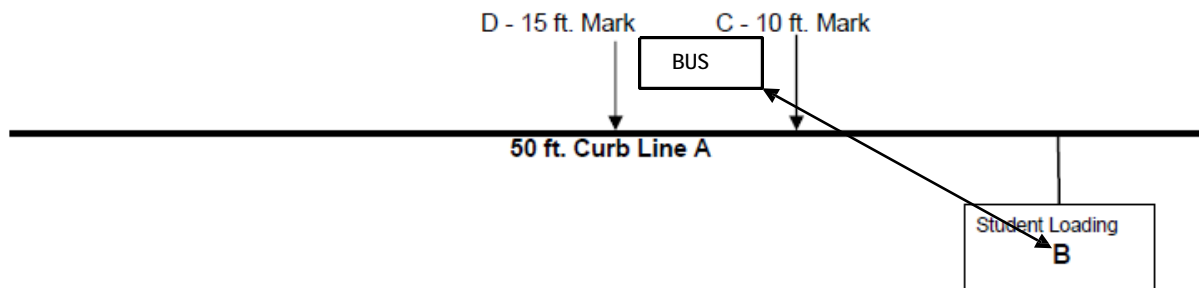
LAYOUT & DIRECTIONS:

Setup Tools for Elem. Student Loading

- ▣ Heavy-duty claw hammer
- ▣ 1 ½ inch masonry nails (one box)
- ▣ One 100 ft. tape measure
- ▣ One box of yellow marker crayons or chalk
- ▣ 50' of 5/8 inch curb line yellow rope
- ▣ Student Sign
- ▣ Other

1. Layout a 50 ft. curb line rope "A". This will represent the right side of the roadway.
2. Place the Student Sign "B" near the end of and behind the curb line or edge of roadway.
3. Mark where the Student Sign is to be located with crayons or chalk.
4. Make a small crayon or chalk mark "C" 10 ft. from the Student Sign, this will represent the closest the bus can stop from the student.
5. Make a small crayon or chalk mark "D" 15 ft. from the Student Sign which indicates the bus is further than 15 ft. away from the student.

Elementary Student Loading Event



SCORING DIRECTIONS:

- Measurement will take place after the bus is stopped, place in the park/neutral position and the door is opened.
- Measurement will be taken from the RIGHT EDGE OF THE FRONT BUMPER to the edge of the stop line closest to the bus. (Measurement will not be taken from the crossing gate)
- Measurement from right edge of bus bumper directly to Student (B).

CURB LINE PARK EVENT

Maximum score: 50points

PURPOSE OF TEST:

To test the skills of the driver to make a loading or unloading maneuver that requires pulling into a curb parking zone that has a limited distance.

INSTRUCTIONS:

The event will be set up to simulate a limited curb length between other parked vehicles. The loading area will be marked by two 8 ft. barriers which will be spaced three (3) times the length of the bus. The contestant must pull into the curb and pull out without backing up. This is a timed event. The contestant will have two (2) minutes from the time the front bumper of bus passes the rear barrier until the bus is properly parked and the horn is sounded.

The contestant will be judged on use of right turn signal when pulling in and the left turn signal when pulling out. Proper use of mirrors will also be judged. The 5-point mirror check should be made. The contestant will be scored if the tire hits the curb line. A measurement will be made at the loading area to determine how close the bus is parked to the curb line. The contestant must place bus in neutral, apply park brake and sound horn.

Scoring: The contestant will be scored on the following items:

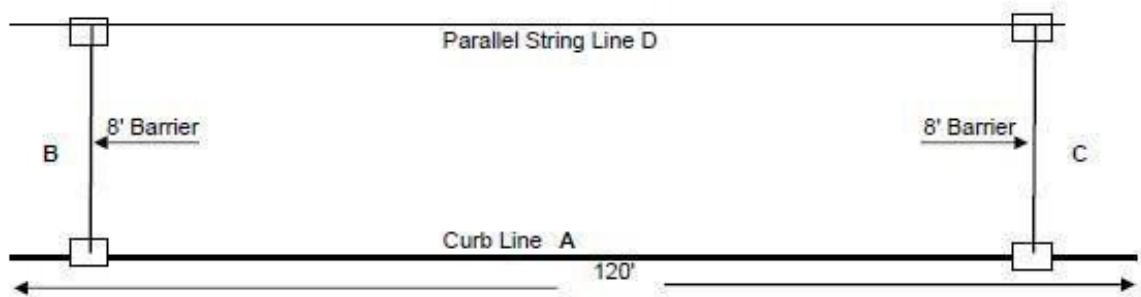
Failure to wear seatbelt	(50 demerits)
Failure to complete event	(50 demerits)
Failure to keep door closed during event	(50 demerits)
Failure to drive with headlights on	(50 demerits)
Failure to place bus in neutral, apply park brake and sound horn within 2 minutes	(50 demerits)
Hits either back or front barrier	(50 demerits)
Hitting the curb with tire tread	(50 demerits)
Furthest bus measurement from curb	
0" to 12"	(0 demerits)
12" to 18"	(20 demerits)
18" and over	(50 demerits)
Backing up in event	(50 demerits)
Failure to use right turn signal	(10 demerits)
Failure to cancel right turn signal	(10 demerits)
Failure to use left turn signal	(10 demerits)
Failure to cancel left turn signal	(10 demerits)

LAYOUT & DIRECTIONS:

Setup Tools for Curb Line Parking Stall

- ▣ Heavy-duty claw hammer
- ▣ 1½ inch masonry nails (one box)
- ▣ One 12 ft. tape measure
- ▣ One 100 ft. tape measure
- ▣ One 1000 ft. roll of nylon string
- ▣ One box of yellow marker crayons
- ▣ Carpenter's Square
- ▣ 120' of 5/8 inch curb line yellow rope
- ▣ Other

Curb Line Parking Layout



DIRECTIONS:

1. - Layout the 120' rope curb line "A".
2. - Align the outside edge of the 8' barriers "B" & "C" on curb line "A" at a 90 degree angle.
3. - Layout a parallel string line "D", 8' from curb line "A" at a 90 degree angle to barrier B and C.
4. - Measure and mark along curb line "A" and parallel line "D" the appropriate stall lengths.

Settings for bus stall lengths:

- Transit Bus..... 3 times the Length of bus
- Conventional Bus..... 3 times the Length of bus
- Van type Bus..... 3 times the Length of bus

5. - Move barrier "B" as necessary for appropriate bus length.

STOP LINE EVENT

Maximum Score: 25 points

PURPOSE OF THE TEST:

This test determines the contestant's depth perception, ability to use crossover mirrors and ability to bring the bus to a smooth complete stop.

INSTRUCTIONS:

A yellow 5/8 inch rope stop limit line six feet long is layout. The contestant should bring the bus to a complete stop as close to the stop limit line as possible. Only one stop will be allowed. The stop limit line may be in sequence with another event, such as the right turn or the railroad grade crossing. The contestant will sound the horn after the stop is made and the vehicle has been placed in neutral gear and the park brake set.

Scoring

Measurement for scoring the stop line will be taken from the front surface of the bumper to the edge of the line closest to the bus. Measurement will be taken any place on the bumper that is the closest to the line. The bus must stop two (2) inches or less from the stop limit line to avoid demerits being given.

0" to 2"	(0 demerits)
over 2" to 4"	(3 demerits)
over 4" to 6"	(6 demerits)
over 6" to 8"	(9 demerits)
over 8" to 10"	(12 demerits)
over 10" to 12"	(15 demerits)
over 12" to 14"	(18 demerits)
over 14" to 16"	(21 demerits)
over 16"	(25 demerits)

Stops with bumper <u>beyond</u> the line.	(25 demerits)
Failure to complete event	(25 demerits)
Backs up during event	(25 demerits)
Failure to wear seat belt	(25 demerits)
Failure to keep door closed	(25 demerits)
Failure to drive with headlight on	(25 demerits)

Setup Tools for Stop Line Event

- ▣ Heavy-duty claw hammer
- ▣ 1½ inch masonry nails (one box)
- ▣ One 12 ft. tape measure
- ▣ One box of yellow marker crayons
- ▣ 6 ft. of 5/8 inch curb line yellow rope

DIRECTIONS:

1. Determine location of stop. Make sure that it does not line up with any ground reference that could be used as a marker.
2. Place a 6 ft. stop line rope on the location determined for the stop line.
3. Place a stop sign on a standard to the right of the line, but not in a location that can be used as a marker or ground reference.

STOP LINE TEST

Contestant# _____

Event Judge _____

Maximum Score: _____ 25 points
 Demerits: _____
 Score Earned: _____

DEMERITS

0"-2"	(0 demerits)	_____
Over 2" to 4"	(3 demerits)	_____
Over 4" to 6"	(6 demerits)	_____
Over 6" to 8"	(9 demerits)	_____
Over 8" to 10"	(12 demerits)	_____
Over 10" to 12"	(15 demerits)	_____
Over 12" to 14"	(18 demerits)	_____
Over 14" to 16"	(21 demerits)	_____
Over 16"	(25 demerits)	_____
Stops with bumper beyond stop line	(25 demerits)	_____
Failure to complete event	(25 demerits)	_____
Backs up during event	(25 demerits)	_____
Failure to wear seat belt	(25 demerits)	_____
Failure to keep door closed	(25 demerits)	_____
Failure to drive with headlights on	(25 demerits)	_____
Stops more than once	(25 demerits)	_____

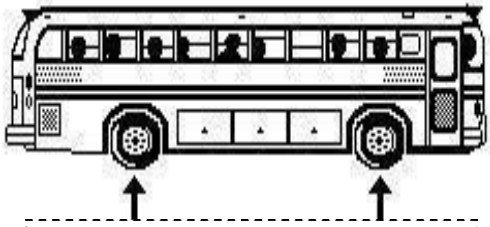
Put Measurements Here:

SURPRISE EVENT

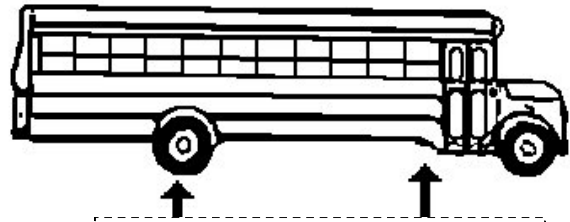
Maximum Score: 50 pts.

The Competition Committee may select a surprise event for the competition. The event would be announced at the Orientation Meeting on Friday morning. The event would be designed to test the ability of a driver to react to an unplanned event.

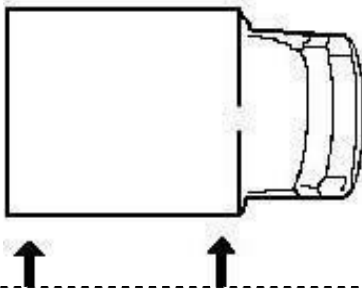
BUS MEASURING POINTS:



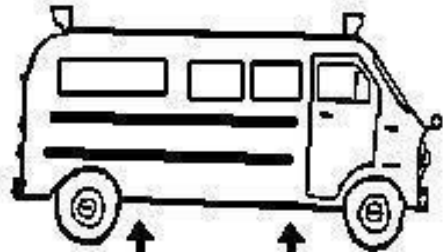
Center & bottom of the tire, both front & rear in relation to the curb line.
(Do Not Measure from the Tire Bulge)



Center & bottom of the rear tire & the widest point of the body just behind the entrance door in relation to the curb line. **(Do Not Measure from the Tire Bulge)**

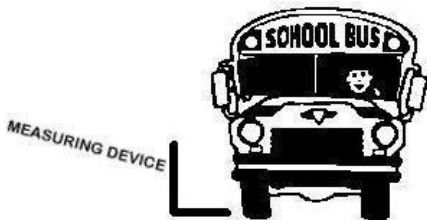


(WIDE BODY VANS)
 The widest part of the body front and rear in relation to the curb line.

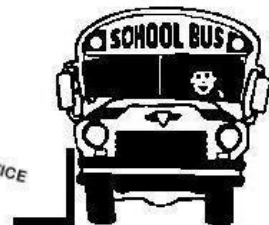


(FOR ALL OTHER VANS)
 The widest part of the body front and rear in relation to the curb line.

How to use the measuring device



Measuring from the center of the tire tread



Measuring from the body

For Events: Parallel Parking and Curb line Parking