

MAPT Guidelines for School Bus Technician's Training and Skills Competition

This School Bus Technician's Training and Skills Competition sponsored by the *Missouri Association for Pupil Transportation (MAPT)* shall be for the purpose of providing training and skills competition to determine Missouri's Best School Bus Technician. This skills competition will require technicians to demonstrate exemplary skills in such areas as technical knowledge and diagnostic troubleshooting.

Awards

At the conclusion of the School Bus Technician's Skills Competition awards will be presented to the first five places with door prizes to be presented based on random drawings.

Competitors

All participants must be currently employed in a position requiring the regular/frequent maintenance and/or repair of school buses. Each competitor shall be responsible for fully understanding all rules relating to the competition. The first place technician will be selected to compete at the NAPT "America's Best" national competition.

Entry Forms

After completion, the entry forms shall be forwarded to the MAPT Competition Coordinator.

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Competition

The State Competition shall include two (2) phases of competition:

1. Written Examinations - (50% of total score)
2. Diagnostic Troubleshooting - (50% of total score)

The competitor's *total score* will be determined by combining the individual scores for each phase of the competition. All necessary tools, diagnostic equipment, and required safety equipment will be provided for use during the competition. Individual competitors will be required to follow standard safety procedures for tool usage and personal safety.

1. Written Examinations

Purpose: Technicians must be knowledgeable in all areas of school bus maintenance and repair and demonstrate proficiency based on technical knowledge. This portion of the competition will test the technician's knowledge as well as their ability to read, comprehend, and respond.

Instructions: Each competitor shall be required to complete a written examination consisting of fifty (50) questions. These questions will cover various technical topics to include electrical systems, brakes, engines, suspensions, drive trains, and body systems. All topics will be relative to actual school bus applications. Examination booklets will be handed out along with an answer sheet. Competitors will mark only on the answer sheets. The judge(s) will indicate when the examination shall begin and will maintain a stopwatch up to the allotted time. When time is called all activities must stop and no additional items may be marked on the answer sheet. If an individual completes the examination in less than the allotted time; they are to turn their paper over and sit quietly until the allotted time has expired. If at any time during the examinations one competitor attempts to converse with or assist another; those individuals will be disqualified from this phase of the competition.

Time: The maximum allowable time for completion of the examinations will be forty-five (45) minutes. The judge(s) will notify the competitors at the thirty-five (35) minute and forty (40) minute marks.

Total Score: Individual tests will be scored with each correct answer being worth three (3) points.

Maximum Score: One Hundred and Fifty (150) points

2. Diagnostic Troubleshooting

Purpose: Technicians must be capable of diagnosing, troubleshooting, and repairing various mechanical components found on school buses. To do this proficiently requires substantial mechanical knowledge and the ability to utilize troubleshooting

techniques and equipment. This portion of the competition will test the technician's hands on ability of working on components/systems.

Instructions: Competitors will be required to troubleshoot and identify mechanical deficiencies in three (3) different school bus components/systems. The judge(s) will indicate when the troubleshooting shall begin and will maintain a stopwatch up to the point that the allotted time has expired. When time is called all activities must stop. The competitor will be required to respond orally identifying the defect in detail. Specific instructions/conditions regarding each diagnostic area will be provided immediately prior to the competition.

Time: The maximum allowable time for completion of diagnosis will be fifteen (15) minutes for each of the areas. The judge(s) will notify the competitors at the five (5) minute and ten (10) minute marks.

Scores: Individual scores will be calculated for each of the three (3) diagnostic areas. The maximum number of points to be awarded for correctly diagnosing a specific area will be fifty (50) points. There will be a ten (10) point demerit assessed for any instance of misuse of tools and/or equipment or for any instance of not utilizing proper safety equipment and/or procedures.

Total Score: The scores from each of the diagnostic areas will be totaled to obtain the score for Diagnostic Troubleshooting.

Maximum Score: One Hundred Fifty (150) points

Tie-Breaker

Purpose: In the event of a tie score in the final standings for positions first, second or third; a tie-breaker will be implemented to determine the higher ranking.

Instructions: The tie-breaker shall be based on the total amount of time consumed in completing the three (3) Diagnostic portions of the competition. Times will be recorded for each competitor as they complete each of the Diagnostic portions of the competition. The competitor with the lowest total diagnostic time for those competitors with the tie score will be placed in the higher position in the final standings.

Summary of Possible Points per Event

<u>EVENT</u>	<u>POINTS</u>
Written Examination	150 Points
Diagnostic Troubleshooting	150 Points
TOTAL POSSIBLE POINTS	300 Points

Rules of MAPT School Bus Technician's Training and Skills Competition

1. The Missouri Association for Pupil Transportation (MAPT) School Bus Technician's Competition will be conducted in accordance with rules as adopted by the NAPT Board of Directors.
2. Contestants are to report to the registration area of the competition site at the times designated by the Competition Official(s). It is the responsibility of the entrant to acquire sufficient knowledge of the sites and times, to allow arrival prior to the competition. Competition will begin with sign-in and pre-competition meetings. Individuals that are not present for the sign-in and/or pre-competition meeting may be disqualified.
3. Random drawing shall be the method used for determining the Contestant Numbers. Contestants will be expected to compete in the order specified by the official(s). Contestants that are not available to compete at the scheduled times will be disqualified, unless they are delayed by another phase of competition. The decision of the judge(s) on tardiness shall be final.
4. No smoking, eating or drinking will be allowed during any phase of the actual competition.
5. Throughout the competition it shall be understood that safety is of the utmost concern. All competitors must perform with this in mind and conduct themselves accordingly.
6. Competition officials will provide all necessary tools, diagnostic equipment and safety equipment. Competitors will be required to follow standard safety procedures of tool usage and personal safety. Demerits will be given for any improper use of tools/equipment or failure to use proper safety equipment.
7. The contestants will be timed during the diagnostic phases of the competition. The total times for the diagnostic phases of the competition will serve as a tie-breaker.
8. Any buses used for competition shall be representative of the buses used in the general area where the competition occurs. Specific equipment found on these buses may or may not be used for the purposes of the competition.
9. The Director of Competition reserves the right to make such changes as may be deemed in the best interest of the competition. No changes in the competitive events will occur after the competition starts.
10. Contestants may contact an official of the competition at the Official Scorer's table if they feel that their performance was adversely affected by circumstances beyond their control. Any concerns must be specifically stated immediately following the conclusion of the affected phase of competition. If the allegations are confirmed and deemed to have detrimentally affected the competitor's score, a determination will be made as to whether a rerun for that event will be allowed. If a re-run is granted, an official of the competition shall escort the competitor directly to the event involved and a new score sheet shall be completed. The decision of the competition officials shall be final.
11. Once scores have been finalized and winners announced, no grievance or changes in scores will occur.
12. Disqualification of a contestant shall result from rules infractions or instances of misconduct such as:
 - Inappropriate or unprofessional behavior as determined by the judge(s).
 - Consumption of a controlled substance (drugs, alcohol, etc.) immediately prior to or during the competition.
 - Competing while under the influence of a controlled substance (drugs, alcohol, etc.).
 - Accepting signals or information from anyone during the actual competition.
 - Performing any portion of the competition in a manner that might jeopardize the safety of the competitor, competition officials or others.
13. Winners will be announced following the conclusion of all phases of competition.
14. The Missouri Association for Pupil Transportation and its officers/representatives shall not be responsible for any claims for loss or injury.

Missouri Association for Pupil Transportation School Bus Technician's Training and Skills Competition Entry Form

To Be Completed By Competitor

By verification of signature; I have read, understand, and accept all terms and conditions of this competition as listed below.

Competitor Name: _____ **Employer:** _____

Address: _____ **City:** _____ **State:** _____

Zip Code: _____

Contact Number: _____ **Fax Number:** _____

Signature: _____ **Date:** _____

To Be Completed By Competitor's Supervisor

I hereby certify that the competitor named above is currently employed in a position to routinely/frequently perform school bus inspections.

Signature: _____ **Date:** _____ **Job Title:** _____

Phone: _____ **Fax:** _____ **Email:** _____

