

Transportation Trivia Competition

1.0 Introduction

This competition is designed to test students' knowledge on transportation and highway design and devices. Questions will cover industry design and reference books, as well as general history and knowledge. The competition will consist of a preliminary written exam and a game show style quiz competition.

2.0 Teams

- 2.1 Only one team from each school will be allowed to participate.
- 2.2 Each team will consist of one (1) or two (2) undergraduate students.

3.0 References

- 3.1 *A Policy on: Geometric Design of Highways and Streets* (2004 edition, AASHTO publication) a.k.a. "The Green Book"
- 3.2 *Manual on Uniform Traffic Control Devices* (2003 edition with revisions 1 and 2, FHWA publication)
- 3.3 *Highway Capacity Manual* (TRB publication)
- 3.4 In addition to questions from these reference texts, there will be "general knowledge" questions focusing on transportation history, background, and practices. This information can be found in most transportation and highway design textbooks.

4.0 Written Exam Round

- 4.1 Each student will complete the written exam individually. No collaboration between team members will be allowed during this round. Only the highest score from the students on the same team will count in deciding the participants for the oral quiz round.
- 4.2 No materials other than a pencil or pen will be allowed in the written exam room.
- 4.3 The written exam will consist of multiple choice questions. A maximum of 45 minutes will be allowed to complete the test. Participants must arrive 15 minutes prior to the test for test instruction and to make a record of all participants and teams.

5.0 Oral Quiz Round

- 5.1 The 4 teams with the top written exam scores will move on to this round.
- 5.2 Team members will be allowed to collaborate during this round. Only one buzzer per team will be allowed.
- 5.3 Once the announcer has finished asking the question to all of the teams, the first team to buzz in will be allowed to answer. If that team does not get the answer correct, the next team to buzz in will be allowed to answer. The questions will be selected at random.
- 5.4 Thirty (30) minutes will be allowed for this round. Participants must arrive 15 minutes prior to the round for instruction, set up, and to check that all team members are the same one that competed in the written exam round.

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6.0 Judging and Scoring

- 6.1 Up to three (3) judges will be present at both rounds. These judges will rule on the correctness of answers. The judges' decision will be final.
- 6.2 The team with the most correct answers at the end of the oral quiz round will be titled the winner. All teams from this round will be ranked according to how many correct answers the team has at the end of the oral quiz round. All other teams will be ranked based on the highest written exam score from that team.
- 6.3 In the event of a tie during the oral quiz round, an additional tie-breaker question will be asked to the teams that are tied.
- 6.4 In the event of a tie during the written exam round, the average of the exam scores from the team will be considered.
- 6.5 Points will be allotted to the teams as follows:

1.	Highest quiz bowl score	30 points
2.	2 nd highest quiz bowl score	25 points
3.	3 rd highest quiz bowl score	20 points
4.	Lowest quiz bowl score	17 points
5.	5 th highest written test score	15 points
6.	Next highest written test score	13 points
7.	Next highest written test score	11 points
8.	Next highest written test score	9 points
9.	Next highest written test score	7 points
10.	Next highest written test score	5 points
	All other submittals	3 points