

# Missouri Society of Radiologic Technologists - Student Bowl Rules

## Eligibility

1. One team, consisting of a maximum of three students, from each approved school of Radiologic Technology in Missouri (to include adjoining metropolitan areas), may enter the Student Bowl.
2. Each student and coach must be a member of the MSRT and must register for the annual conference for the day(s) of competition.
3. Each program must submit thirty (30) questions with answer and references as a part of the application process. These questions must be included with the application and reference at least one of the approved texts. Please format the questions as short-answer or fill-in-the-blank. The team coach is responsible for the accuracy of these questions and answers.
4. Each of the following categories **MUST** be represented in the thirty (30) submitted questions: equipment operation and maintenance, image production and evaluation, radiographic procedures, patient care and management, and radiation protection.
5. Each team will be assigned, by the student bowl chair, to bring a copy of the textbook(s) referenced in the team's application on the night of the competition. Teams will be notified prior to the annual conference regarding which books will be required of them. Non-compliance could result in disqualification of the team.
6. Each program director must submit an application, and thirty (30) accurate, referenced questions, **via e-mail**, to the MSRT Student Bowl Chairman by the date specified. **Questions retrieved from examination review books can NOT be used. Only textbook referenced questions are allowed.** The application must list all team members (with one alternate team member, if desired). The Student Bowl Chair will verify proof of membership. Any discrepancies or noncompliance could result in disqualification of the team. Conference registration badges for participants must be presented the night of the competition.

## Officials

The Student Bowl Chairman will select the officials. The judges and timekeeper will be selected as follows:

Each school, at the time of registration for the student bowl, **MUST** select one educator (i.e. program director, clinical instructor, etc.) to represent their school as a possible judge/timekeeper.

Up to 4 judges and 2 timekeepers will be chosen, at random.

The name of each school representative will be put into a pool and drawn by the Student Bowl Chairman.

For any discrepancies between the judges for an answer given by a school team during the competition, the timekeeper will be utilized as the "tie breaker".

Judges – Up to 2 judges per room will be chosen. The judges, using references, as needed, will determine if answers from teams are correct or incorrect at all times. **The judges' decisions are final.**

Reference keeper(s) – Up to 1 reference keeper per room will be chosen. The reference keeper(s) is responsible for locating the correct reference books and keeping them in the room during the competition. He/she will confer with any team that misses a question and wishes clarification of why the response was incorrect. This clarification will take place after the round is over. There is no arguing. The reference keeper(s) may also act as a judge if needed.

Moderator(s) - Up to 1 moderator per room will be chosen. The moderator(s) will read the rules before the competition begins, and will ask questions and review answers. The moderator(s) should ask for help from the judges in determining the correctness of an answer.

Timekeeper(s) - Up to 1 timekeeper per room will be chosen. The timekeeper(s) will time the 15-second answering period for each question. The timekeeper(s) will also time the competition rounds. If needed, the timekeeper(s) will act as a "tie-breaker" for any judging discrepancies.

Score keeper(s) - the score keeper(s) will record the number of correct answers. Two score keepers will be assigned to each Room A and Room B for a total of 4 score keepers.

### Questions

The MSRT Student Bowl Committee will review all questions. Questions will be of short answer or fill-in-the-blank type.

The question, answer and reference notation will be on a numbered card. The judges will have a numerical listing of the questions with answers.

The Student Bowl Committee will be responsible for the safekeeping of the questions before, during and after the competition. They will be passed on to the next chairman, when appointed.

All questions will be asked only once during the competition.

## Competition

Prior to the beginning of round one, questions will be drawn from the following categories: equipment operation and maintenance, image production and evaluation, radiographic procedures, patient care and management, and radiation protection.

Round one will consist of a 45-minute time limit.

The round one teams will be split into two halves. Teams will be randomly selected to compete in either Room A or Room B. Team room assignments will be posted prior to the competition.

All teams will compete simultaneously during round one and each room will function similarly to the other.

The moderator will ask a question of the teams.

The teams will be given 15 seconds to confer and to write the answer on the slate provided. Each team captain will then show the answer to the moderator and state the answer verbally.

Each team will receive one point for each correct answer. If an answer is incorrect, no point will be awarded.

The teams **MUST** turn up their slates when the moderator calls time. **The answer on the slate must contain complete information.** It will be up to the judges to determine whether or not the information is complete.

The two teams from Room A and Room B with the most points at the completion of round one will compete in the finals (round two). This will be a total of four teams. If this should include more than four teams, sudden "Roentgen Death" will be played.

In the event that there are four teams or less competing, a single 60-minute round will be played.

In sudden "Roentgen Death", questions will continue to be asked. The team(s) that falter(s) first will be eliminated.

Round two (the four remaining teams competing in the finals) will be conducted in the same manner as round one.

Round two will consist of a 30-minute time limit.

In case of a tie, sudden "Roentgen Death" will be played.

All program directors or their designated representatives of the schools and their teams will meet with Student Bowl Chairman at a designated time prior to the start of the competition.

*No Alcoholic beverages* will be permitted into the Student Bowl area. Anyone suspected of being intoxicated will be denied admittance and/or asked to leave the competition area.

### **SAMPLES OF QUESTION FORMAT:**

#### **SAMPLE**

1. What year were x-rays discovered? Answer: 1895

Reference: Trail of the Invisible Light; Grigg, E.R.; pg 392

Category: Image production and evaluation

#### **SAMPLE**

2. Who discovered x-rays? Answer: Wilhelm Konrad Roentgen

Reference: Trail of the Invisible Light; Grigg, E.R.; pg 246

Category: Image production and evaluation

## **2012 Allowed References**

(All sources must be from the most recent editions)

### **Equipment Operation and Maintenance, Image Production and Evaluation**

- Radiologic Science for Technologists, Bushong
- Principles of Radiographic Imaging: An Art and a Science, Carlton & Adler
- The Fundamentals of Imaging Physics & Radiobiology, Selman
- Digital Radiography and PACS, Carter & Veale

### **Radiographic Procedures**

- Textbook of Radiographic Positioning and Related Anatomy, Bontrager
- Merrill's

### **Patient Care and Management**

- Patient Care in Imaging Technology, Torres et al
- Patient Care in Radiography with an Introduction to Medical Imaging, Ehrlich & Daly
- Introduction to Radiologic Sciences, Adler & Carlton

### **Radiation Protection**

- Radiation Protection in Medical Radiography, Statkiewicz, Visconti, Ritenour
- Practical Radiation Protection and, Dowd & Tilson
- Essentials of Radiation Biology & Protection, Forshier