



GUIDELINES AND MECHANICS

I. INTRODUCTION

The Department of Science and Technology – Philippine Nuclear Research Institute (DOST-PNRI) will spearhead the celebration of the 45th Atomic Energy Week (AEW) on 4 – 7 December 2017 with the theme **“Nuclear Science and Technology for the People.”** The celebration will focus on enhancing public awareness on breakthroughs in nuclear research, beneficial uses of nuclear science and technology, advances in radiation technology, and safety in undertaking activities involving radioactive materials. In line with these, PNRI will hold the **2017 Philippine Nuclear Science Quiz (PNSQ)**.

PNSQ is a national quiz bee competition which provides an avenue to enhance Filipino students' awareness and appreciation of the nuclear science and technology field and its potential role in uplifting the quality of living in the country. The **Regional Level Competition** will be held from **October to November 2017** while the **National Level Competition** will be held on **6 December 2017** at the PNRI compound in Commonwealth Avenue, Diliman, Quezon City. This activity is envisioned to be a vehicle in providing an unbiased view on nuclear science and technology.

II. OBJECTIVE

The PNSQ aims to promote and sustain public awareness and understanding of nuclear science and technology and its beneficial applications especially among high school students.

III. PARTICIPATION

- The competition is open to all public and private secondary schools in the Philippines.
- The competition is divided into two levels – (1) Regional Level and (2) National Level. Only the top two winners in the Regional level are qualified to compete in the National Level. A subsidy for travel expenses (airfare, accommodation and lodging) shall be given by PNRI to the teams who will compete in the National Level. The subsidy will cover – (1) roundtrip ticket from and to home region and the PNSQ venue and (2) a one time allowance amounting to five thousand pesos only (Php 5000) given upon arrival of the team to the PNSQ venue.
- Registration Forms can be requested from the PNSQ Committee or downloaded online through the PNRI website.
- Each participating school shall form a team of two (2) junior high school (Grade 7 – 10) students and an official coach. The team should be officially endorsed by the School Principal/Head. A school with only one student representative will NOT be accepted in the competition.
- Participants must be willing (with parents'/guardians' consent) to travel to the PNSQ venue if they qualify to the National Level Competition.
- The final list of qualifiers for the national level shall be notified via email and their names posted through the PNRI website on November 3, 2017.

IV. CONTEST MECHANICS

A. Regional Level

1. Participating schools in each region shall compete in the regional level by submitting a 1 – 2 minute video, including the video storyboard or script, depicting their answer to the essential question, **“Does the Philippines really need nuclear power?”**



2. Entries may be submitted electronically or via courier.
 - 2.1. Submitting by courier/mail
 - 2.1.1. Download and accomplish the registration form and video storyboard/script form.
 - 2.1.2. Save video in a CD or flash drive.
 - 2.1.3. Send the complete entry package - (1) registration form; (2) video storyboard/script and (3) video to:

The 2017 PNSQ Committee
Nuclear Training Center
Philippine Nuclear Research Institute
Commonwealth Avenue, Diliman, Quezon City, 1101
 - 2.1.4. Alternatively, save forms in pdf format and submit online then send video in CD or flash drive via courier/mail to the address stated above.
 - 2.2. Submitting online
 - 2.2.1. Download and accomplish the registration form and video storyboard/script form. Save each file in PDF format.
 - 2.2.2. Submit forms and/or video through the link below: <http://bit.ly/2iq4GBA>
3. The complete entry package – (1) Registration Form; (2) Video Storyboard or Script; and (3) Video saved in a CD or Video link must be received by the PNSQ committee not later than **October 13, 2017**.
4. All entries will become property of the PNRI. Any entry deemed inappropriate, unsuitable, and/or found infringing copyright laws, in the Committee's discretion, will be disqualified.
5. The technical quality of the video entry is desirable, but NOT required. Hence, participating teams are encouraged to make the video storyboard/script as detailed and clear as possible to enable the board of judges to verify parts that may not have been clearly seen or depicted in the actual video.
6. Submitted entries shall be evaluated using the following criteria
 - 6.1. *Relevance (30%)*. The entry must satisfactorily present the answer to the essential question, **"Does the Philippines really need nuclear power?"**
 - 6.2. *Content (30%)*. The claims, arguments, proposal, facts, and the like presented in the entry must be accurate and/or based on solid research work.
 - 6.3. *Impact and Creativity (20%)*. The entry stimulates interest and engagement to its intended audience.
 - 6.4. *Popularity (20%)*. Based on the total number of Facebook and YouTube likes on the video.
7. Entries will be posted on the official **PNRI-PNSQ Facebook** page for voting through likes. Voting will be open for one week, October 20 – 27, 2017. Votes/likes registered beyond October 27, 2017 (Friday); 6:00PM (1800H) will NOT be counted. Only the "likes" in the official PNRI Facebook page will be counted.
8. Only the top two winners in each region are qualified to compete in the National Level. It is expected that there will be a total of 34 teams all over the Philippines who will be competing in the National Level.
9. In the event that slots in the National Level for a particular region are open as maybe the case when there are no entries received by the PNSQ committee from a particular region, the slot/s shall be open to teams from other regions. With the exception of the top two winners for each region, all other video entries shall be ranked based on the criteria and open slots shall be given to top winners.
10. The final list of qualifiers for the national level shall be notified via email and their names posted through the PNRI website on November 3, 2017. Qualifiers are required to confirm their participation to the National Level competition until November 10, 2017.



B. National Level

1. The National Level competition shall be held on December 6, 2017 at the PNRI compound in Diliman Quezon City. A total of 34 teams are expected to compete at this level.
2. The questions in National Level will cover various topics on nuclear science and technology which includes radiation and radioactivity, atomic and nuclear structure, nuclear and radiation technology, nuclear power, radiation protection, nuclear safety and regulations, and current nuclear-related events.
3. The National Level competition is divided into three rounds – (1) elimination round (2) semi-final round and (3) final round. A “power up” stage shall be held prior to the final round. The “power up” stage is designed to prepare competing teams in the playing field of the final round.

Elimination Round

1. All 34 competing teams shall take a 50-item written exam in the Elimination round. Teams will answer the exam within an hour only.
2. Only the top 15 teams shall advance to the Semi Final Round.
3. In case of a tie for remaining slots, a tie-breaker round will be played where the contending teams will be asked randomly-selected questions worth one point each until the tie is broken.

Semi-Final Round

1. The Semi-final Round is a staged quiz show with a quizmaster reading the questions. Each team shall be provided with boards where they are to write their answers.
2. The quizmaster will read questions covering topics in Nuclear Science and Technology. Before reading the question, the quizmaster will specify the type of question (multiple choice, identification or computation), the allotted time for answering, and the corresponding points to be earned by the team.
3. A total of thirty (30) questions categorized as Easy, Average and Difficult, shall be asked in this round. Each question will be read twice.
4. Correct answers will merit one (1) point, two (2) points and three (3) points for Easy, Average and Difficult questions respectively. Incorrect answer shall not merit points nor deductions.
5. The teams shall display their answers only at the cue of the quizmaster.
6. The results of the Quiz will be tabulated on a scoreboard and on a score sheet. The five (5) teams with the highest accumulated scores will advance into the final round.
7. In case of a tie for remaining slots, a tie-breaker round will be played where the contending teams will be asked randomly-selected questions worth one point each until the tie is broken.
8. A challenge to a question should be addressed to the board of judges only. The challenge should be given **before** the next question is asked. The judges will confer and decide whether the challenge is valid or not. The judges' decision is final and irrevocable. All other questions/challenge raised after the next question was asked will NOT be entertained.

Power Up Stage

1. In preparation for the Final Round, the top five (5) teams from the Semi final round shall undergo a “power up” stage. In this stage, teams answer a set of questions to get “Power Ups”.
2. There will be two kinds of power-ups – (1) **Jump** and (2) **Fortitude**
3. A “**Jump**” power up allows a team to advance two steps in the final round while a “**Fortitude**” power up prevents the team from going back one step in the event that their answer in one of the questions in the final round is incorrect.
4. The first team/s to get three (3) correct answers will be awarded one Jump power-up and one Fortitude power-up. The next team/s to get three (3) correct answers will be awarded one power up of their choice (Jump or Fortitude).



PHILIPPINE NUCLEAR SCIENCE QUIZ

5. A total of ten (10) questions will be given in this stage. The quizmaster shall read each of the questions twice and teams write their answers on boards provided.
6. A challenge to a question should be addressed to the board of judges only. The challenge should be given **before** the next question is asked. The judges will confer and decide whether the challenge is valid or not. The judges' decision is final and irrevocable. All other questions/challenge raised after the next question was asked will NOT be entertained.

Final Round

1. The Final Round is composed of a playing field with ten (10) steps for each of the five teams.
2. All teams shall stand at the starting line at the beginning of this round.
3. A total of 25 questions shall be asked in this round. A quiz master shall read the questions twice and teams write their answers on boards provided.
4. Each correct answer will allow a team to take one step forward. A wrong answer however, will cause a team to take one step back except for those who are still at the starting point. A team can choose not to give an answer for which instance, they will remain in place.
5. A team possessing a power-up may use it, as applicable, until the 6th step. No team can use any power-up after the 6th step.
6. The first team to reach their last step (10th) will be declared the winner. The next two teams nearest to the finish line will take second and third place.
7. In the event that no team has reached the 10th step after 25 questions, the team nearest to the finish line will be declared the winner. The next nearest will be declared second and the third nearest will be declared third place.
8. In case of a tie in any of the top five (5) slots, tie-breaker questions will be asked where the contending teams will be asked randomly-selected questions worth one step each until the tie is broken.
9. A challenge to a question should be addressed to the board of judges only. The challenge should be given **before** the next question is asked. The judges will confer and decide whether the challenge is valid or not. The judges' decision is final and irrevocable. All other questions/challenge raised after the next question was asked will NOT be entertained.

V. PRIZES

1. All participating teams in the Regional and National Levels shall receive a certificate of participation.
2. All winners in the Regional and National Levels shall receive a certificate of recognition.
3. Each member of the teams who qualifies to the National Level Competition (one coach and two students) shall receive a PNSQ 2017 T-Shirt.
4. Grand Prizes for PNSQ winners are as follows:
 - First Prize: Cash Prize of PhP 50,000.00 + Trophy
 - Second Prize: Cash Prize of PhP 40,000.00 + Trophy
 - Third Prize: Cash Prize of PhP 30,000.00 + Trophy
 - Consolation Prize: PhP 15,000.00
 - Consolation Prize: PhP 15,000.00
5. First Prize winners will also get a chance to participate in the ASEAN Nuclear Youth Camp in 2018. All expenses due to their participation shall be provided by PNRI.



VI. OTHER MATTERS

1. Food and drinks will be provided for all official participants and coaches during the conduct of the 2017 PNSQ National Level Competition.
2. Participants should arrive at the specified quiz venue at least one (1) hour before the competition schedule. This time will be allotted for registration and group picture taking before the start of the competition. Participants should present their respective school I.D.s during the registration.
3. Taking photos or videos during the competition is strictly prohibited. An official photographer will be present during the event.
4. The officials of the quiz shall have the right to disqualify any team who violates any item of the PNSQ Guidelines and Mechanics.
5. The results of the quiz will be final and not appealable.
6. Important dates to remember:
 - October 13, 2017 (Friday): Deadline of submission of complete entry package
 - October 20 – 27, 2017: Posting of video entries for voting
 - November 3, 2017 (Friday): Announcement of winners in the Regional Level
 - November 10, 2017 (Friday): Deadline for confirmation of participation to National Level
 - December 6, 2017 (Wednesday): PNSQ National Level Competition
 - December 7, 2016 (Thursday): Awarding of PNSQ winners. This will be held during the closing ceremonies of the 45th Atomic Energy Week (AEW).
7. For inquiries please email pnsq.pnri@gmail.com or contact any of the following:

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