



Republic of the Philippines
Department of Education
REGION III
SCHOOLS DIVISION OFFICE OF BATAAN

JAN 23 2026

DIVISION MEMORANDUM

No. 032 s. 2025

**PARTICIPATION IN THE BATAAN PENINSULA SCIENCE AND
ENGINEERING CONGRESS 2026 (BPSEC)**

To: Chief Education Supervisors
Education Program Supervisors
Public Schools District Supervisors
Public and Private Senior High School Heads
All Others Concerned

1. In line with the Department of Education's thrust to promote excellence in Science, Technology, Engineering, and Mathematics (STEM) and to provide learners with authentic academic and career-oriented learning experiences, this Office hereby informs all concerned of the conduct of the **Bataan Peninsula Science and Engineering Congress 2026 (BPSEC 2026)** in collaboration with the **Philippine Institute of Chemical Engineers – Bataan Chapter (PICHE-BC)** on February 28, 2026, at The Peninsula School Auditorium, Alangan, Limay, Bataan.

2. The Congress shall consist of the following activities:

- a) **A Glimpse of Chemical Engineering Through Career Orientation.** This activity aims to orient Senior High School students on the expectations, opportunities, and career pathways in the chemical engineering profession; and
- b) **Bataan Peninsula Science and Engineering Congress Quiz Bowl.** This academic competition aims to recognize outstanding Senior High School students in the fields of Mathematics, Earth and Space Science, Biology, Chemistry, and Physics, with the inclusion of introductory concepts in Chemical Engineering.

3. Senior High School Principals are encouraged to endorse and facilitate the participation of their students in this congress. Enclosed are the registration guidelines and contest mechanics for reference.

4. To ensure the smooth conduct of activities, the following must be strictly observed:
- a) **Time-on-Task:** Activities must not compromise instructional time and must comply with DepEd Order (DO) No. 012, s. 2025 (Multi-Year Implementing Guidelines on the School Calendar), DO No. 9, s. 2005 (Instituting Measures to Increase Engaged Time-on-Task).



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"We Mould Heroes"





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b) **No Collection Policy:** Consistent with Republic Act No. 5546 (Ganzon Law), DO No. 19, s. 2008, and DepEd Memorandum No. 041, s. 2024, no fees, tickets, or contributions shall be collected from learners, teachers, or parents in connection with BPSEC-related activities.

c) **Safety and Security:** School heads and activity organizers must ensure learner safety, proper supervision, and compliance with outdoor safety protocols.

5. Expenses related to the BPSEC participation may be charged to the School Maintenance and Other Operating Expenses (MOOE) or other local funds, in accordance with existing accounting and auditing rules and regulations.

6. Immediate and wide dissemination of this Memorandum is earnestly desired.

CAROLINA S. VIOLETA, EdD, CESO V

Schools Division Superintendent

Encls.: as stated
Reference: BPSEC Letter

To be indicated in the Perpetual Index
Under the following subjects:

CAREER ORIENTATION
SCIENCE CONGRESS

CHEMICAL ENGINEER
SCIENCE BOWL

CONGRESS

SI2
January 21, 2026



PHILIPPINE INSTITUTE OF CHEMICAL ENGINEERS BATAAN CHAPTER

Petron Bataan Refinery, Limay, Bataan 2103, Philippines

January 18, 2026

Carolina S. Violeta, EdD, CESO V

Schools Division Superintendent
Schools Division of Bataan
Kabukiran, Calaylayan, Abucay, Bataan

Dear Dr. Carolina:

Greetings!

We, the Philippine Institute of Chemical Engineers - Bataan Chapter (PICHE-BC), will be spearheading **Bataan Peninsula Science and Engineering Congress 2026 (BPSEC)** on **February 28, 2026**, for Senior High School students. The event will be held at **The Peninsula School Auditorium, Barangay Alang Limay, Bataan**.

We strongly believe it is vital to nurture the Filipino youth and provide them with guidance toward future careers that will impact the Philippines' global competitiveness. With this in mind, the congress aims to ignite a passion for science and engineering among Bataan's top high school students. The PICHE-BC is dedicated to equipping them with the knowledge and inspiration needed to realize their potential and make significant contributions to nation-building, driving future innovation and progress in the Philippines.

The one-day event is tailored for both Junior and Senior High School students, featuring two major activities:

- ChE 101: A Glimpse of Chemical Engineering Through Career Orientation** This session aims to provide Senior High School students with substantial information regarding the expectations and opportunities within the chemical engineering profession.
- The Bataan Peninsula Science & Engineering Congress Quiz Bowl** This quiz bowl aims to recognize the province's best Senior High School students in the fields of Mathematics, Earth and Space Science, Biology, Chemistry, and Physics. Introductory chemical engineering topics will also be included to provide high school students a glimpse of the field. Each school's team will be composed of one (1) Grade 11 and two (2) Grade 12 students.

We kindly request your endorsement for this activity and invite public and private high schools in Bataan to join the Congress. Attached are the registration guidelines and contest mechanics for your reference.

For any queries, please contact the BPSEC 2026 coordinator: Engr. Mark Rudan C. Consular via mobile (+63) 912-859-4355 or through consularmr11@gmail.com.

We sincerely hope for your favorable response. Thank you very much and we bid you more power.

Best regards,

JURREL D. PUMATONG
President, FY 2025-2026

MARK RUDAN C. CONSULAR
Chairman for Education, FY 2025-2026

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The **Philippine Institute of Chemical Engineers - Bataan Chapter (PICHE-BC)**, will once again be spearhead the **Bataan Peninsula Science and Engineering Congress 2026 (BPSEC)** on **February 28, 2026**, at **The Peninsula School Auditorium, Alangan, Limay, Bataan**.

The congress will be divided into two major events:

1. ChE 101: A Glimpse of Chemical Engineering Through Career Orientation

This session aims to provide Senior High School students with substantial information regarding the expectations and opportunities in the chemical engineering profession.

2. The Bataan Peninsula Science & Engineering Congress Quiz Bowl

This quiz bowl aims to recognize the province's best Senior High School students in the fields of Mathematics, Earth and Space Science, Biology, Chemistry, and Physics. Introductory chemical engineering topics will also be included to provide high school students a glimpse of the field. Each school's team will be composed of Senior High School students—specifically one (1) Grade 11 and two (2) Grade 12 students.

ChE 101: A Glimpse of Chemical Engineering Through Career Orientation

1. Open to all Senior High School students in Bataan.
2. No registration fee will be collected.
3. Each school may send up to three (3) interested students accompanied by one (1) teacher.
4. Two (2) chemical engineers will be invited to give informative talks and walk students through what chemical engineering is about.
5. Students may bring their own snacks and lunch.
6. Schools must register participants through this link: <https://forms.gle/XwFBKtGKm3h8R9ZEA> on or before February 20, 2026.

The Bataan Peninsula Science & Engineering Congress Quiz Bowl

Since its inception in 2008 as the PIChE-BC Whiz Quiz, the Bataan Peninsula Science Bowl has evolved significantly. Initially, it paired top high school students with chemical engineers in a battle of wits. It was revamped during BPSEC 2024 and was first partaken by Junior High School students across Bataan. Consequently, in 2025, the event expanded to recognize the best students from both Junior and Senior High Schools, showcasing their wit in answering challenging questions beyond their limits. Additionally, a special scoring system was implemented in the final rounds to foster teamwork and decision-making skills, encouraging participants to take calculated risks and enhancing their ability to weigh risks and make sound decisions under pressure.

This year, the competition introduces a new flavor by focusing on Senior High School students to represent their respective schools. Additionally, introduce a small touch of chemical engineering into the questions, based on the Chemical Engineering Law of 2004 (RA 9297).

Winners will be recognized not only for their academic excellence but also for their ability to perform under pressure. The Bataan Peninsula Science Bowl continues to grow, providing a platform for young minds to showcase their talents and develop crucial skills for their future careers.

A. REGISTRATION

- Open to all Senior High School students in Bataan.
- No registration fee will be collected.
- Each team will consist of three (3) members: one (1) student each from Grade 11 and two (2) students from Grade 12.
(Note: Students joining the Quiz Bowl must be separate from those joining the Career Orientation.)
- Up to two (2) coaches may accompany participants.
- Students may bring their own snacks and lunch.
- Schools must register through this link: <https://forms.gle/9btHCNMathjLYhaA9> on or before February 20, 2026.

B. MECHANICS

The Quiz Bowl consists of two major phases: the **Elimination Round** and the **Final Round**.

ELIMINATION ROUND

1. **Format:** Written pen-and-paper examination. Each student will answer 30 identification and/or problem-solving questions (10 Easy, 10 Average, 10 Difficult).
2. **Duration:** 2 hours and 30 minutes. Students who finish early may submit their papers and leave the venue.

3. **Coverage:** Topics are detailed below.

i. **Earth and Space Science:** The Philippine Environment; Interactions in the Atmosphere; Seasons in the Philippines; Earthquakes and Faults; Understanding Typhoons; Eclipses; Solar System; Volcanoes; Climate; Constellations; Plate Tectonics

ii. **Biology:** Microscopy; Levels of Biological Organization; Animal and Plant Cells; Digestive System; Fungi, Protists, and Bacteria; Mendelian Genetics; Components of an Ecosystem; Ecological Relationships; Transfer of Energy in Trophic Levels; Cycling of Materials in the Ecosystem; Respiratory, Circulatory, Reproductive, Endocrine, and Nervous Systems; DNA; Non-Mendelian Inheritance; Multiple Genes; Causes of Species Extinction; Flow of Energy and Matter in Ecosystems; Population Growth and Carrying Capacity; Life Processes at the Cellular and Molecular Levels; Cell Theory; Cell Cycle; Transport Mechanisms; Transformation of Energy in Organisms; Evolution and Origin of Biodiversity; Systematics Based on Evolutionary Relationships

iii. **Chemistry:** Solutions; Substances and Mixtures; Elements and Compounds; Acids and Bases; Metals and Nonmetals; The Particle Nature of Matter; Atomic Structure; Periodic Table of Elements; Electronic Structure of Matter; Chemical Bonding; The Variety of Carbon Compounds; Mole Concept; Gas Laws; Biomolecules; Chemical Reactions; Composition, Structure, and Properties of Matter; Quantitative Principles, Kinetics, and Energetics of Transformations of Matter; Organic Chemistry

iv. **Physics:** Motion in One Dimension (Descriptors and Detectors); Laws of Motion; Work Power and Energy; Waves (Types, Characteristics, and Velocity); Sound; Light; Heat; Motion in Two Dimensions; Conservation of Energy; Heat, Work, and Efficiency; Electromagnetic Spectrum; Mechanics of Particles, Rigid Bodies, and Fluids, Waves; Heat and Thermodynamics; Electricity and Magnetism; Optics; Basics of Special Relativity, Atomic, and Nuclear Phenomena

v. **Mathematics:** Sets and Real Number System; Unit of Measurement; Linear Equations and Inequalities; Systems of Linear Equations and Inequalities in Two Variables; Triangles; Measures of Central Tendency; Probability of Simple Events; Quadratic Equations and Inequalities; Quadratic Functions; Rational Algebraic Equations; Variations; Radicals; Sequences; Series; Polynomial Equations; Polynomial Functions; Quadrilaterals; Circles; Trigonometry; Combinatorics and Probability; Measures of Position; Analytical Geometry; Series and Mathematical Inductions; Limits and Continuity; Derivatives and Integration

vi. **Chemical Engineering:** Chemical Engineering Act of 2004, Current News related to Chemical Engineering

4. **Scoring System:** Each question will be assigned as follows:

QUESTION TYPE	SCORE
Easy	1
Average	2
Difficult	3

Zero (0) points will be applied to any incorrect or no answer.

A school's total score will be the combined scores of its members.

5. **Finalist:** The top fifteen (15) schools with the highest scores will advance to the Final Round. In case of a tie, the team with the highest combined number of correct items will advance.

FINAL ROUND

1. **Format:** The final round is a face-to-face quiz bowl type.
2. Each team will be composed of the students of the fifteen (15) schools who obtained the highest total points during the elimination round. Scores for all participating teams shall be reset to zero at the start of the final round.
3. Overall coverage of the questions will still be the same during the elimination round stated above in Section B.3.
4. The Final Round consists of three categories: Easy, Average, and Difficult. Scoring system will be as follows:

Category	No. of Items	Time Limit	Points		
			Correct Answer	No Answer	Wrong Answer
Easy	5	10 secs	+3	0	0
Average	7	20 secs	+5	0	0
Difficult	3	60 secs	+10	0	0

5. Additionally, a predetermined number of Special Questions with a special scoring system shall also be distributed across the three categories; these questions shall be labelled as Easy Plus, Average Plus, or Difficult Plus. Scoring system will be as follows:

Category	No. of Items	Time Limit	Points		
			Correct Answer	No Answer	Wrong Answer
Easy Plus	3	15 secs	+4	-1	-2
Average Plus	3	60 secs	+6	-1	-3
Difficult Plus	2	100 secs	+12	-1	-6

Teams can get higher points if they answer correctly the Special Questions but will lose points if they are incorrect. They may also opt not to answer the special questions, however there will be a standard minus 1 (-1). This should encourage the teams to take necessary risks and perform strategic decision-making to help them gain advantage in the competition.

6. Answering Rules:
 - a. The question will be flashed on the screen and shall be read by the quizmaster twice, after which he/she gives the GO signal. The timer starts when the quizmaster gives the GO signal. Each team should raise their whiteboard once the quizmaster gives the RAISE YOUR BOARD signal.

- b. Contestants may begin solving as soon as they wish. ALL FINAL ANSWERS should be written on their boards eligibly within the allotted time. Ushers assigned to each team will enforce time limit and confirm if the team gets the correct answer, by which he/she will raise the team's number to count their points.
 - c. For multiple-choice and identification questions, the teams must write their answers in CAPITAL LETTERS. For identification questions, incomplete and/or misspelled answers will be considered wrong.
 - d. For problem-solving questions, the teams must write their answers accurately up to the specified number of decimal places together with the appropriate unit. Otherwise, rules on significant digits shall be applied.
 - e. Use of calculators will only be allowed during the difficult round.
7. Any complaint, query, or protest regarding a particular question can only be made by the official contestants and their respective coaches and should be made before reading the next question.
 8. The decision of the panel of judges shall be final and irrevocable.
 9. At the end of each phase, scores of each team will be computed and announced.
 10. Ranking will solely be based on the Final Round results. The team with the highest cumulative scores will be declared the Champion. The next two top-scoring teams will be declared as 1st and 2nd runners-up, respectively.
 11. In the case of a tie at the end of the last phase, a tie breaker will immediately ensue and will be sudden death in nature. Average to difficult type questions will be asked until one team gains an advantage in score over the other.

C. AWARDS

1. All participating students and coaches will receive certificates of participation.
2. The highest scorer per grade level during the Elimination Round will receive a Certificate of Recognition. Awarding will be done before proceeding to the Final Round.
3. The winning teams will receive the following prizes:

Champion	Php 5,000 + gold medals and certificates of excellence for the students + certificate of recognition for the coaches + trophy for the school + token to coaches
First Runner Up	Php 3,000 + silver medals and certificates of excellence for the students + certificate of recognition for the coaches + trophy for the school + token to coaches
Second Runner Up	Php 1,500 + bronze medals and certificates of excellence for the students + certificate of recognition for the coaches + trophy for the school + token to coaches