



Republic of the Philippines  
Department of Education  
Region III  
**SCHOOLS DIVISION OF BULACAN**

October 15, 2024


**DIVISION MEMORANDUM**

No. 453, s. 2024

**INTEGRATION OF ENVIRONMENTAL EDUCATION IN SCIENCE CURRICULUM:  
COMMUNICATING VOLCANO, EARTHQUAKE, AND TSUNAMI HAZARDS FOR  
SCIENCE CLUB AND YES-O ADVISERS (PRO-ENVIRONMENT@E4.0)**

To: Assistant Schools Division Superintendents  
Division Chiefs  
Public Schools District Supervisors  
All Public Elementary School Heads  
All Public Secondary School Heads  
All Others Concerned

1. The Schools Division of Bulacan announces the conduct of online and synchronous training-workshop in *Integration of Environmental Education in Science Curriculum: Communicating Volcano, Earthquake, and Tsunami Hazards for Science Club and YES-O Advisers (Pro-Environment@E4.0)*. This three-day activity will be on October 16-18, 2024 via MS Teams platform.
2. Recognizing the need for the Science Club and YES-O advisers *to lead in promoting environmental awareness and responsibility* by focusing on communicating volcano, earthquake, and Tsunami hazards in response to the MATATAG agenda of **M**aking the curriculum relevant to produce competent and job-ready, active, and responsible citizens and **G**iving support to teachers to teach better as well as the BULAKENYO Flagship Program of **N**urturing teachers with competencies to improve efficiency and teaching performances making learners future-ready and equipped with 21st-century skills, this virtual training-workshop aims to:
  - a. enable teachers to acquire a deeper understanding on the science of volcanic eruption, earthquake, and tsunami;
  - b. empower teachers communicate volcano, earthquake, and tsunami hazards to the Science and YES-O Clubs student-officers and members;
  - c. encourage teachers to implement club activities that uphold environmental awareness and responsibility specially in times of natural disasters; and,
  - d. compel teachers to prepare an action plan for the Science Club advisers and YES-O club advisers projects and activities that promote disaster risk reduction and mitigation.
3. The participants of this online and synchronous training-workshop are the elementary and secondary Science Club and YES-O club advisers of their respective schools.
4. Attached herewith are the training matrix and the list of training management team members for reference.
5. Wide and immediate dissemination of this memorandum is earnestly desired.

  
**NORMA P. ESTEBAN, EdD, CESO V**  
Schools Division Superintendent

Encls.: As stated



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Enclosure No. 1 Training Matrix in the Integration of Environmental Education in Science Curriculum: Communicating Volcano, Earthquake, and Tsunami Hazards for Science Club and YES-O Advisers (Pro-Environment@E4.0) and the Training Management Team

**Table 1. TRAINING MATRIX OF THE DIVISION TRAINING-WORKSHOP**

Date/Time	Activity	Speaker/Facilitator
<b>Day 1 (Wednesday, 16 October 2024)</b>		
8:30 – 9:00 AM	Opening Program	TWG
9:00 – 12:00 NN	Session 1 1. The Science of a. Volcano b. Earthquake c. Tsunami	Raphael J. Estarez and Mervin G. Lucas/TWG
<b>Day 2 (Thursday, 17 October 2024)</b>		
8:30 – 9:00 AM	Recap of the Previous Session	RPs/TWG
9:00 – 12:00 NN	Session 2 1. Integrating the knowledge in volcano, earthquake, and Tsunami hazards in co-curricular activities (e.g., Science Club and YES-O Club PPAs) 2. Presentation of sample action plan of the Science and YES-O clubs 3. Crafting of action plan for the Science Club and YES-O Club (will be accomplished offline by the participants)	Lani L. Buencamino and Alvin F. Mariano/TWG
<b>Day 3 (Friday, 18 October 2024)</b>		
8:00 – 8:30 AM	Recap of the Previous Session	RPs/TWG
9:00 – 11:30 AM	Presentation and Critiquing of Outputs of select participants	RPs/TWG
11:30 – 12:00 NN	Closing Program and Awarding of Certificates	Proponent/RPs/TWG

**Table 2. TRAINING MANAGEMENT TEAM**

Proponent	Marinella T. Pengson, PhD DEPS – Science
Secretariat	Ma. Bella S. Fajardo EPS II – HRD
QATAME Associates	Ma. Lourdes J. Patag, LPT, MAE SEPS – SMME Cecille E. Cruz, LPT, MAE EPS II – SMME
Resource Persons	1. Raphael J. Estarez, MAEd-Science Teacher III (Carlos F. Gonzales HS) 2. Mervin G. Lucas, MAEd-Science Head Teacher III (Sta. Maria NHS) 3. Lani L. Buencamino, MAEd-Science Master Teacher II (San Miguel NHS) 4. Alvin F. Mariano, MAEd-Science Teacher III (San Miguel NHS)
Technical Working Group	1. Beverly V. Basilio, MAEd-Science Head Teacher III (Lolomboy NHS) 2. Joan T. Buluran, MAEd-Science Head Teacher III (Sta. Peregrina HS) 3. Maricel M. Sosa, MAEd-Science Head Teacher I (Maronquillo NHS) 4. Jayson B. Eugelio, MAEd-Science Teacher III (Carlos F. Gonzales HS)