August 8, 2019

MEMORANDUM TO:

OIC-Office of the Assistant Schools Division Superintendent
Chief Education Supervisors, CID and SGOD
Secondary School Principals
Officers-in-Charge
Public Schools

THE TRAINING-WORKSHOP ON THE CONDUCT OF SCIENTIFIC RESEARCH

Attached is Regional Advisory No. 149, s. 2019 dated July 25, 2019 re: The Training-Workshop on the Conduct of Scientific Research on August 24-25, 2019 at Department of Education Ecotech Center, Ecotech Rd, Cebu City, content of which is self-explanatory.

This is issued for information purpose only and not an indorsement of the activity.

For:

JOEL T. TORRECAMPO
Assistant Schools Division Superintendent
Officer-In-Charge
Office of the Schools Division Superintendent

By:

KYRE K. ALBURO
Education Program Supervisor
Officer-In-Charge
Office of the Schools Division Superintendent

Maka-Diyos, Makatao, Makalikasan at Makabansa
The Training – Workshop on the Conduct of Scientific Research

The STEM Education Training Hub, a training and consultancy center for students and teachers will conduct a training workshop on scientific research on August 24-25, 2019 at DepEd Ecotech Center, Ecotech Road, Cebu City.

The target participants are the junior and high school students. The program aims to develop learners that are skillful enough to propose solution to the existing societal, environmental and other significant problems through the conduct of research.

For more information, you may contact:
Dr. Joseph R. Jacob
STEM Training Hub Director
Website: www.stemtrainings.com
Cell No.: 09153530454

This is issued for information purpose not an endorsement of the activity.
WILFREDO E. CABRAL  
Director III  
Officer-In-Charge  
Office of the Regional Director

Dear Dr. Cabral:  

Mabuhay!

This is to seek from your good office your usual support in inviting junior and senior high school students to “THE TRAINING-WORKSHOP ON THE CONDUCT OF SCIENTIFIC RESEARCH” on August 24-25, 2019 at Department of Education Ecotech Center, Ecotech Rd, Cebu City, 6000 Cebu. The program aims to develop learners that are skilful enough to propose solution to the existing societal, environmental and other significant problems through the conduct of research. This will be conducted by the finest international research advisers of the country.

For almost a decade, yours truly have been mentoring students that have won in both national and international research platform. Numerous international research champions have been produced through the research programs that I organized which include a winning of the 3 minor planets in the galaxy awarded by the Lincoln Laboratory and numerous international awards coming from Intel-International Science and Engineering Fair-USA and ASEAN Science Project Competition.

It is our passion and part of our societal responsibility to continue to hone young researchers that would serve as our allies in finding solutions to our daily life challenges. By doing so, we could be able to create citizens that are creative, critical thinkers and problem solvers.

This program is organized by the STEM Education Training Hub, a training and consultancy center for students and teachers that specializes on training programs on education, research and STEM programs. We seek for your support in this great endeavour by helping us disseminate this information.

The registration form and the program are attached to this letter.

Thank you very much!

Sincerely,

JOSEPH R. JACOB, LPT, MAED, MBA, FRIEDr  
Director  
Contact #: 09153530454
TRAINING-WORKSHOP ON THE CONDUCT OF SCIENTIFIC RESEARCH on August 24-25, 2019 at Department of Education Ecotech Center, Ecotech Rd, Cebu City, 6000 Cebu

Training Matrix

SESSION DURATION: 8 hours per meeting / 16 hours for 2 days

<table>
<thead>
<tr>
<th>LEARNING OUTCOMES</th>
<th>TOPICS TO BE DISCUSSED</th>
<th>TIME ALLOTMENT FOR EACH TOPIC</th>
<th>SPECIFIC OBJECTIVES OF THE TOPICS OR SUBTOPICS</th>
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<tbody>
<tr>
<td>Determine research ideas and narrow it down to testable, feasible and economically-relevant topics.</td>
<td>Science Investigatory Projects: A Key to Ignite Students' Creativity and Research Skills</td>
<td>4 hours (2.5 hours will be allotted for the discussion and 1.5 hours for the workshop)</td>
<td>- Define the STEM Investigatory Project - Identify the roles of SIPs - Identify resources that can be used to generate research topics - Focus preliminary research ideas - Apply safety and ethical considerations in choosing a STEM project - Present a topic proposal - Evaluate project plans</td>
</tr>
<tr>
<td>Write the first draft of the experimental design and STEM investigatory project plans</td>
<td>Developing an Investigation Plan</td>
<td>4 hours (2 hours each will be allotted for the discussion and workshop)</td>
<td>- Describe the main components of an experimental design - Explain the purpose of writing a research proposal and its detailed sections - Apply the aspects of scientific writing in writing the project plan. - Explain the importance of doing background research - Enumerate ways on how to avoid plagiarism - Explain what documentation is and its importance</td>
</tr>
<tr>
<td>Collect, analyze, interpret and communicate results through appropriate graphical representations and effective writing</td>
<td>Data Collection, Analysis and Interpretation</td>
<td>4 hours (2.5 hours will be allotted for the discussion and 1.5 hours for the workshop)</td>
<td>- Explain the importance of organizing a laboratory notebook - Write brief notes in the notebooks about the data tables - Construct appropriate graphical representations to present raw data - Determine which inferential statistics could be applied to a particular STEM project - Determine if differences in the data are statistically significant or not - Use guide questions to interpret raw data - Draw conclusions from the summarized results</td>
</tr>
<tr>
<td>Communicate the findings of the investigation through effective writing of the STEM research paper</td>
<td>Writing the STEM Research Paper: The IMRaDC Way</td>
<td>2 hours</td>
<td>- Explain the importance of using the IMRaDC format - Describe the five sections of the research paper. - Create an outline of the sub-sections of the main parts of the paper: Introduction, Methodology, Results and Discussion, and Conclusion. - Describe other parts of the investigatory write-up: title, abstract, table of contents, acknowledgement, bibliography and appendices. - Evaluate research papers</td>
</tr>
<tr>
<td>Prepare the necessary entry requirements for Science Fairs</td>
<td>Preparation for STEM Fairs</td>
<td>2 hours</td>
<td>- Identify the qualities of a good oral presentation - Describe the components of the SIP poster/exhibit - Identify the INTEL forms needed in particular types of research projects - Best Practices in Conducting Science Investigatory Projects</td>
</tr>
</tbody>
</table>

Fees:

Individual Registration Fee: P3,000
P200 discount for the early registrations until July 15, 2019 regular fee applies thereafter
Deadline of registration is until August 10, 2019
Register by sending your name, contact details, choice program & the deposit slip to: stemeducationhub@gmail.com.

Send the registration fee to:
BDO Acent: STEM EDUC TRAINING HUB
Acent#:006320401108