



MAY 19 2011

DepEd MEMORANDUM

No. **114**, s. 2011

TRAINING-WORKSHOP FOR NSTIC AND REGIONAL TRAINERS ON THE USE AND CARE OF SCIENCE EQUIPMENT WITH CONTENT INTEGRATION

To: Undersecretaries
Assistant Secretaries
Directors of Services, Centers and Heads of Units
Regional Directors
Schools Division/City Superintendents
Heads, Public Secondary Schools
All Others Concerned

1. To ensure maximum utilization and proper care of various science equipment distributed to the recipient public secondary schools nationwide, the National Science Teaching Instrumentation Center (NSTIC) will conduct the **Training-Workshop for NSTIC and Regional Trainers on the Use and Care of Science Equipment with Content Integration** for five (5) days per batch on the following schedules and venues:

Batch	Region	Schedule	Venue
1	I, II, III, IV-CALABARZON, IV-MIMAROPA, V, CAR and NCR	June 6-10, 2011	Ecotech, Lahug, Cebu City
2	VI, VII, VIII, IX, X, XI, XII, Caraga, and ARMM	June 13-17, 2011	Ecotech, Lahug, Cebu City

2. This activity aims to:

- a. prepare the NSTIC and Regional Trainers to conduct the regional level training-workshop for the public secondary science teachers of the recipient schools;
- b. familiarize the trainers on the functionality, application and the required maintenance work of the science equipment with reference to the 2010 Secondary Education Curriculum (SEC);
- c. raise the level of competence, self-esteem and self-confidence of regional trainers so that they will be fully and completely prepared to train their peers or fellow science teachers during the training workshop; and
- d. validate and finalize the NSTIC-developed training manuals to be used during the regional training.

3. The participants to this activity are science teachers carefully selected by their respective regional and division science supervisors based on the criteria set by the NSTIC and the Regional Science Supervisors during the Consultative Meeting held on August 23, 2010 at Ecotech Center, Lahug, Cebu City.



4. The regional directors (RDs) and schools division/city superintendents (SDSs) are encouraged to send their nominated participants to the said training-workshop. Every region should have the following number of participants:

Subject Area	No. of Participants
a. Integrated Science	2
b. Biology	2
c. Chemistry	2
d. Physics	2
e. Division Science Supervisor	1
f. Regional Science Supervisor	1

5. Please see the following enclosures for reference:

- a. Enclosure No. 1: Criteria in Selecting the Regional Trainers;
- b. Enclosure No. 2: Official List of the selected regional participants; and
- c. Enclosure No. 3: Training Design

6. Payment for the board and lodging of the participants and facilitators, resource persons with allowable honoraria, purchase of training materials, consumables and other related expenses shall be charged to NSTIC MOOE Fund for Training or Human Resource Training and Development Fund (HRTD) whichever is available, subject to the usual accounting and auditing rules and regulations. However, travel expenses and per diem of the regional participants will be charged to local funds subject to the usual accounting and auditing rules and regulations.


7. All participants are required to report to the venue on Day 0 for the registration. The first meal will be dinner of Day 0, and the last meal will be dinner of Day 5. They are required to **attend punctually** all the sessions and the workshop, and to bring one (1) Laptop per subject area per region and the following:

Each participant	Materials to Bring
Integrated Science	at least three (3) reference materials/textbook
Biology	at least three (3) reference materials/textbooks
Chemistry	at least three (3) reference materials/textbooks, empty shoe box, calculator, ruler, scissors, cutter, and USB
Physics	at least three (3) reference materials/textbooks, calculator, and USB

8. This training-workshop will be facilitated by the personnel of DepEd NSTIC. However, hiring of additional resource persons shall be authorized.

9. For more information, please visit **Ms. Natalie O. Olis/Mr. Marvin S. Maquilas** from the DepEd-NSTIC Ecotech Compound, Sudlon, Lahug, Cebu City or contact them at telephone nos.: (032) 255-3633 to 35; fax no.: (032) 255-3005; mobile phone no.: 0906-2338-659; or send a message through e-mail address: depednstic@yahoo.com.

10. Immediate dissemination of this Memorandum is desired.


BR. ARMIN A. LUISTRO FSC
 Secretary *AL*

Encls.:

As stated

Reference:

DECS Memorandum: Nos. 513 and 225, s. 1999

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

EQUIPMENT
SCIENCE EDUCATION
TRAINING PROGRAMS
WORKSHOPS
TEACHERS

SMA/JBM, DM TOT NSTIC & regional trng draft memo
May 12, 2011/5-13-11

(Enclosure No. 1 to DepEd Memorandum No. 114, s. 2011)

CRITERIA FOR SELECTING THE SECONDARY REGIONAL TRAINERS

Science I:

1. Priority in selection will be given to science teachers from recipient schools of NSTIC distributed science equipment.
2. Not more than 45 years old, physically and mentally fit.
3. Integrated Science major, with good grasp of earth science, astronomy, meteorology.
4. At least 3 years recent teaching experience Integrated Science with masters degree/units preferred.
5. With some technical skills.
6. Willing to stay in his/her school for the next 3 years.

Science II :

1. Priority in section will be given to science teachers from recipient schools of NSTIC distributed science equipment.
2. Not more than 45 years old, physically and mentally fit.
3. Biology major, or allied course per service training e.g. nursing.
4. At least 3 years recent teaching experience Biology, with masters degree/units preferred.
5. With some technical skills.
6. Willing to stay in his/her school for the next 3 years.

Science III :

1. Priority in section will be given to science teachers from recipient schools of NSTIC distributed science equipment.
2. Not more than 45 years old, physically and mentally fit.
3. Chemistry major, or allied course per service training e.g. chemical engineering.
4. At least 3 years recent teaching experience Chemistry, with masters degree/units preferred
5. With some technical skills.
6. Willing to stay in his/her school for the next 3 years.

Science IV :

1. Priority in section will be given to science teachers from recipient schools of NSTIC distributed science equipment.
2. Not more than 45 years old, physically and mentally fit.
3. Physics major/certificate program, or allied course per service training e.g. mechanical engineering.
4. At least 3 years recent teaching experience Chemistry, with masters degree/units preferred
5. With some technical skills.
6. Willing to stay in his/her school for the next 3 years.

(Enclosure No. 2 to DepEd Memorandum No. 114, s. 2011)

**TRAINING WORKSHOP OF SELECTED SECONDARY REGIONAL TRAINERS
ON THE USE AND CARE OF SCIENCE EQUIPMENT WITH CONTENT INTEGRATION
NOMINATED REGIONAL PARTICIPANTS**

REGION	SUBJECT AREA				TOTAL
	INTEGRATED SCIENCE	BIOLOGY	CHEMISTRY	PHYSICS	
I	Leomar Abarra Fermin Guerrero	Arturo Blanco Irene Granil	Emilyn Hobayan Marissa Borromeo	Marcelino Alterado Jaime Campos	8
II	Myriam Parel Jennifer Moro	Marlon Velasco Glen Mendoza	Melinda C. Garfida Marjorie L. Magbanua	Jerwin Gabriel Lorena Calantas	8
III	Maricel dela Cruz Susana Galvez	Shanlyn Farin Leah Fastidio	Ailyne Renojo Ligaya Morfe	Jeffrey Mabini Jerandel Gaspar	8
IV-A	Viernalyn Nama Rowena Oblea	Elma C. Bautista Vangie I. Cruz	Joel Pullan Renato Obis	Magno R. Abueme Mario Maramot	8
IV-B	Agnes G. Arguilles Elaine A. Dizon	Shiela P. Rioveros Florife Romasanta	Irene D. Manato Gina G. Mendoza	Reynita S. Dejusos Noida DG Castro	8
V	Maria Charline Diapad Senen S. Rafael	Mary Rose Sta. Rosa Bebelyn Nocomura	Maria Lota C. Monte Mark Anthony Rupa	Nelson Bataller Francis Lanuza	8
VI	Angelica P. Neolpis Oscar Tanque	Lani J. Escollada Rhoda Benlito	Grace A. Peñas Gertrude Gelera	Corazon E. Callao Stanley Belbeder	8
VII	Virginia Cuizon Rhea Marie Enad	Joselou Zorobrado Ma. Nadia Reyes	Milagros Aranas Gina Ofelia Vergara	Theresa Avila Roel Bunao	8
VIII	Melissa Espina Lyn Abitona	Arlita Modina Socenia Sevillano	Reynaldo Banjawan Gina Hechanova	Joy Saldana Ryan Tiu	8
IX	Violeta Patangan Sayana S. Hassan	Alma Joligon Margarita E. Rivas	Karen Joy S. Mecias Judicel C. Abayon	Rowena B. Balsamo Fernando Fernandez	8
X	Norven Baylan Reinante Noel Pelagio	Balve Granido Dyna Fabre	Marie Emerald Cabigas Susan Unde	Belen Saportiza Apolinario Samson	8
XI	Marife R. Remorin Cherry Ann D. Into	Mylene Coquilla Allan Balisbis	Sheila Vienna Jemafe M. Encarnacio Rudilyn D. Garcesa	Ruben Ursal Kristine Hope D. Cagurol	8
XII	Mario Ramos Benito Valeroso	Lica Bacarisa Lalaine Biboso	Lito Garino Evelyn Frusa	Ednie L. Agtas Jose Ibanez	8
CARAGA	Lalane Arcena Jenefer Descaya	Marieta P. Rabe Rosario Enguito	Perlita Abrenica Sylvia V. Gingo	Jovani Agcopra Rinard Silvosa	8
NCR	Micah G. Pacheco Olivia C. Caling	Cynthia B. Ong Lourdes Montonogro	Liza A. Alvarez Dalisay e. Esguerra	Cecilia G. Regala Dureza D. Dancal	8
CAR	Freda Bantasan Melba Pacali	Debbie Lanigan Renei Janet Mina	Catherine R. Caluya Rosalie Anhibey	Felix Ancheta Yolanda Dumawing	8
ARMM	Elizabeth Estorninos Evangelina Baseo	Pilar Cogonon Jaimelyn Ututalum	Faiser S. Launin Maria Celeste Padla	Gary C. Diaz Primo J. Sanosa, Jr.	8
TOTAL	34	34	34	34	136

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(Enclosure No. 3 to DepEd Memorandum No. 114, s. 2011)

Department of Education - National Science Teaching Organization Council, Cebu City
 Training Workshop of Selected Secondary Biological Teachers on the Use and Care of Science Equipment with Content Integration
 DepEd EXCELLENCE Center, Cebu City, on 26 April 2011 to 02 May 2011 (6 Days)

Day/Time	8:00-10:00	10:00-12:00	12:00-12:30	12:30-1:00	1:00-3:00	3:00-5:00
Day 1 Day 1	Opening Program Overview of Activities Structure of the Year	Overview of Activities Organization Overview of Activities Laboratory safety management the Year	January 1 January 2	January 1 January 2	January 1 January 2	January 1 January 2
DAY 2	Management of Learning I-Introduction, Surface Tension, Capillarity II-Plasma and Airless Balls III- Density Determination IV-Nitrogen's Heat Loss of Helium	Management, Reporting Measurements, Precision and Accuracy, Science Processes I-Effect of Heat on Volume of Substances II- Dissolving, Pub and Plug III- Fractional Distillation IV-Newton's 2nd Law of Motion	Spill Session 3 Spill Session 4	Spill Session 3 Spill Session 4	Spill Session 3 Spill Session 4	Spill Session 3 Spill Session 4
DAY 3	Management of Learning I-Mechanics II-Physics problems III-Scaling Force and Pressure IV-I and V in series circuits	I-Physics The Atten Friction II-Expanding Cosmos III-Determination of Area, Mass, Force, Tension IV-I and V in parallel circuits	Spill Session 5 Spill Session 6	Spill Session 5 Spill Session 6	Spill Session 5 Spill Session 6	Spill Session 5 Spill Session 6
DAY 4	Management of Learning I-Physical Features of the Earth II-Fungi Structure, Classification III-Comet/Reverse Comets IV-Sound Frequency	I- Identifying Rocks II- Dry Mount of Insect, Rise Mould, Spores III- Conductivity, Electromagnets IV- Electromagnetic Experiments	Spill Session 7 Spill Session 8	Spill Session 7 Spill Session 8	Spill Session 7 Spill Session 8	Spill Session 7 Spill Session 8
DAY 5	Management of Learning I-Weather Observation, Clouds II-Human Tissue, Specimen III-Chemical System Equilibrium IV-Large Calorimeter circuit, Resistor Calibrator	Basic Troubleshooting of Malfunctioning Equipment, Safety Requirement and Maintenance	Spill Session 9 Spill Session 10	Spill Session 9 Spill Session 10	Spill Session 9 Spill Session 10	Spill Session 9 Spill Session 10

Note: Overdue work may be done on events date

Marlene J. Magallon
 NREL-Digital-ARTS

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