



REPUBLICA NG PILIPINAS
REPUBLIC OF THE PHILIPPINES
KAGAWARAN NG EDUKASYON
DEPARTMENT OF EDUCATION
DepEd Complex, Meralco Avenue, Pasig City, Philippines

Tanggapan ng Pangalawang Kalihim
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August 22, 2002

DepEd MEMORANDUM
No. 157, s. 2002

**WORKSHOP ON THE USE OF NSTIC BATCH B (MECHANICS) SCIENCE
EQUIPMENT WITH TRAINING ON REPAIR AND MAINTENANCE**

To : Regional Directors
Schools Division Superintendents
Division Supervisors

1. The National Science Teaching Instrumentation Centre, this Department, will conduct a "Workshop on the Use of NSTIC Batch B (Mechanics) Science Equipment with Training on Repair and Maintenance" at the DepEd Ecotech Centre, Suldon, Lahug, Cebu City on the following dates:

- a. September 3-6, 2002 - Luzon Cluster
- b. September 16-19, 2002 - Visayas Cluster
- c. October 1-4, 2002 - Mindanao Cluster

2. The training aims to:

- a. Promote effective use of NSTIC developed science equipment;
- b. Ensure support of local education officials to the division level training program; and
- c. Enhance efficient monitoring skills of participants.

3. Participants in this training shall be:

- a. One (1) physics teacher from each of the NSTIC Batch B recipient Division Leader Schools (DLSs) (Please see attached sheet); and
- b. Division Science Supervisor for secondary (Division w/ DLSs).

"Bawat Graduate, Bayani at Marangal"

4. Teacher-participants are advised to bring along with them the following items:

a. NSTIC Batch "A" Science Equipment

- | | | | |
|------|---------------------------|---|--------|
| i) | Multiclamp | - | 4 pcs. |
| ii) | standbase | - | 2 pcs. |
| iii) | stand support | - | 2 pcs. |
| iv) | 9.5 mm x 500 mm stand rod | - | 2 pcs. |
| v) | 9.5 mm x 250 mm stand rod | - | 2 pcs. |
| vi) | universal bosshead | - | 1 pc. |
| vii) | test tube holder | - | 1 pc. |

b. 3 Defective Equipment, e.g. triple beam balance, microscope, and one electronic equipment.

5. The participants' board and lodging shall be borne by NSTIC while traveling expenses and per diem before and after the workshop shall be charged against local funds, all subject to the usual accounting and auditing rules and regulations.

6. For inquires, please contact.

National Science Teaching Instrumentation Centre
DepEd Ecotech Compound, Sudlon, Lahug, Cebu City
Tel Nos. : (032) 255-3633 to 35
Facsimile : (032) 255-3005
Email : decs-nstic@skynet.net

7. Immediate dissemination of this Memorandum to all concerned is expected.

R. C. Bacani
RAMON C. BACANI
Undersecretary
Officer-In-Charge

Encl.: As stated

Reference: None

Allotment: 1- -(D.O. 50-97)

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

EQUIPMENT
REPAIR

SCIENCE EDUCATION
WORKSHOPS

LIST OF THE NAMES OF THE DIVISION LEADER SCHOOLS

LUZON AREA

| REGION | DIVISION | NO. OF SCHOOLS | NAME/S OF SCHOOLS |
|--------|--------------------|----------------|----------------------------|
| I | LA UNION | 1 | La Union NHS |
| | LAOAG CITY | 1 | Ilocos Norte NHS |
| | ILOCOS NORTE | 1 | Sarrat NHS |
| | ILOCOS SUR | 1 | Ilocos Sur NHS |
| | PANGASINAN I | 1 | Pangasinan NHS |
| | PANGASINAN II | 2 | Dinalonan NHS |
| | | | Urdaneta NHS |
| | SAN CARLOS CITY | 1 | Speaker E. Perez NAS |
| | | | |
| | | | |
| II | BATANES | 1 | Batanes NHS |
| | CAGAYAN VALLEY | 3 | Cagayan NHS |
| | | | Calaoagan Dackel NHS |
| | | | Camalaniugan NHS |
| | ISABELA | 1 | Isabela NHS |
| | NUEVA VIZCAYA | 2 | Diadi NHS |
| | | | Nueva Vizcaya Gen. CHS |
| | QUIRINO | 2 | Quirino Gen. HS |
| | | Saguday NHS | |
| | | | |
| III | ANGELES CITY | 1 | Angeles City HS |
| | BATAAN | 1 | Bataan NHS |
| | BULACAN | 1 | Marcelo H. del Pilar NHS |
| | CABANATUAN CITY | 1 | Juan R. Litwag NHS |
| | NUEVA ECIJA | 2 | Muñoz NHS |
| | | | Talavera NHS |
| | OLONGAPO CITY | 1 | Olongapo City NHS |
| | PAMPANGA | 1 | J. Abad Santos HS |
| | TARLAC | 1 | Tarlac NHS |
| | ZAMBALES | 1 | Zambales NHS |
| | | | |
| IV | AURORA | 1 | Aurora N Science HS |
| | BATANGAS | 1 | Gov. Feliciano Leviste MHS |
| | BATANGAS CITY | 1 | Batangas NHS |
| | CAVITE | 1 | Bukal NHS |
| | CAVITE CITY | 1 | Cavite NHS |
| | LAGUNA | 1 | Pedro Guevarra NHS |
| | LIPA CITY | 1 | Sapac NHS |
| | LUCENA CITY | 1 | Ibabang Dupay NHS |
| | MARINDUQUE | 1 | Marinduque NHS |
| | OCCIDENTAL MINDORO | 1 | San Jose NHS |
| | ORIENTAL MINDORO | 1 | J. J. Leido Jr. MHS |
| | PALAWAN | 2 | Palawan NHS |
| | | | Roxas NCHS |
| | RIZAL | 1 | F. P. Felix HS Annex |
| | ROMBLON | 1 | Romblon PHS |
| | SAN PABLO CITY | 1 | San Pablo City NHS |
| | | | |
| | TOTAL | 43 | |

LIST OF THE NAMES OF THE DIVISION LEADER SCHOOLS

LUZON AREA

| REGION | DIVISION | NO. OF SCHOOLS | NAME/S OF SCHOOLS | |
|----------------|-------------------|----------------|-------------------|-----------------------------|
| V | ALBAY | 3 | Ligao NHS | |
| | | | Polangui GCHS | |
| | | | Tabaco NHS | |
| | CAMARINES NORTE | 4 | | Jose Panganiban NHS |
| | | | | Paracale NHS |
| | | | | Tulay na Lupa NHS |
| | | | | Vinzons HS |
| | CAMARINES SUR | 4 | | Nabua NHS |
| | | | | Pili NHS |
| | | | | San Rafael NHS |
| | | | | Sipocot NHS |
| | CATANDUANES | 3 | | Bato Development HS |
| | | | | Catanduanes NHS |
| | | | | San Miguel Development HS |
| | IRIGA CITY | 1 | 1 | Don Zeferino Arroyo Mem. HS |
| | LEGAZPI CITY | 1 | 1 | Pag-asa NHS |
| | MASBATE | 4 | | Catagan NHS |
| | | | | Dimasalang NHS |
| | | | | Masbate NCHS |
| | | | | San Jacinto NHS |
| | NAGA CITY | 1 | 1 | Camarines Sur NHS |
| | SORSOGON | 4 | | Donsol NCHS |
| | | | | Gallanosa NHS |
| Gubat NHS | | | | |
| Sorsogon NHS | | | | |
| CAR | ABRA | 1 | 1 | Abra HS |
| | BAGUIO CITY | 2 | | Baguio City NHS (Main) |
| | | | | Pines City NHS |
| | BENGUET | 1 | 1 | Benguet NHS |
| | KALINGA | 1 | 1 | Tabuk NHS |
| | MOUNTAIN PROVINCE | 1 | 1 | Mt. Province GCHS |
| NCR | KALOOKAN CITY | 1 | 1 | Kalookan City HS |
| | LAS PIÑAS | 1 | 1 | Las Piñas NHS |
| | MAKATI CITY | 1 | 1 | Makati HS |
| | MANILA | 4 | | Cayetano Arellano HS |
| | | | | Manuel Roxas HS |
| | | | | Mariano Marcos HS |
| | | | | Ramon Magsaysay HS |
| | PASAY CITY | 2 | | Pasay City East HS |
| | | | | Pasay City West HS |
| | PASIG/SAN JUAN | 1 | 1 | Rizal HS |
| | PARAÑAQUE | 1 | 1 | Parañaque MHS |
| | QUEZON CITY | 2 | | Carlos Albert HS |
| | | | | Quezon City Science HS |
| | VALMANA | 2 | | Malabon MHS |
| Valenzuela MHS | | | | |
| | | 40 | | |
| | TOTAL | 83 | | |

LIST OF THE NAMES OF THE DIVISION LEADER SCHOOLS

VISAYAS AREA

| REGION | DIVISION | NO. OF SCHOOLS | NAME/S OF SCHOOLS | |
|----------------|-------------------|----------------|---------------------------------|--------------------|
| VI | BAGO CITY | 1 | Ramon Torres NHS | |
| | CAPIZ | 1 | Capiz NHS | |
| | ILOILO CITY | 1 | Iloilo City NHS | |
| | LA CARLOTA CITY | 1 | Dona HS Benedicto NHS | |
| | NEGROS OCCIDENTAL | 1 | Negros Occidental HS | |
| | ROXAS CITY | 1 | Cong. R. Arnaldo NHS | |
| | SAGAY CITY | 1 | Sagay NHS | |
| | SILAY CITY | 1 | DMLMHS (Math) | |
| VII | BOHOL | 2 | Bohol NHS Bohol SAT | |
| | CEBU CITY | 1 | Cebu City NSHS | |
| | CEBU | 2 | Consolacion NHS Sibonga NHS | |
| | DUMAGUETE CITY | 1 | Dumaguete City Science HS | |
| | LAPU-LAPU CITY | 1 | Marigondon NHS | |
| | MANDAUE CITY | 1 | Mandaue City NCHS | |
| | NEGROS ORIENTAL | 1 | Negros Oriental HS | |
| | SIQUIJOR | 1 | Campalanas NHS | |
| | TOLEDO CITY | 1 | Bato NHS | |
| | VIII | BILIRAN | 1 | Manlabang NHS |
| | | CALBAYOG CITY | 1 | San Policarpio NHS |
| EASTERN SAMAR | | 1 | Eastern Samar NCHS | |
| LEYTE | | 1 | Dulag NHS | |
| NORTHERN SAMAR | | 1 | Bobon School of Phil. Craftsman | |
| ORMOC CITY | | 1 | Ormoc City NHS | |
| SAMAR | | 1 | Samar NHS | |
| SOUTHERN LEYTE | | 1 | Ichon NHS | |
| TACLOBAN CITY | | 1 | Leyte NHS | |
| | TOTAL | 28 | | |

LIST OF THE NAMES OF THE DIVISION LEADER SCHOOLS

MINDANAO AREA

| REGION | DIVISION | NO. OF SCHOOLS | NAME/S OF SCHOOLS |
|-----------------|---------------------|----------------|--|
| IX | BASILAN | 2 | Basilan NHS Lamitan NHS |
| | ZAMBOANGA CITY | 2 | Zamboanga City HS (West) Zamboanga City HS (Main) |
| | ZAMBOANGA DEL NORTE | 2 | Sindangan NHS Zamboanga del Norte NHS |
| | | | |
| X | BUKIDNON | 1 | Bukidnon NHS |
| | CAGAYAN DE ORO CITY | 2 | Cagayan de Oro City NHS (Centro) Gusa NHS |
| | CAMIGUIN | 1 | Camiguin NHS |
| | GINGOOG CITY | 1 | Gingoog City NCHS |
| | MISAMIS OCCIDENTAL | 2 | Aloran NHS Mis. Occ. NHS |
| | MISAMIS ORIENTAL | 3 | Alubijid NCHS Initao HS Mis. Or. GCHS |
| | OZAMIS CITY | 1 | Ozamis City NHS |
| | | | |
| | | | |
| | | | |
| XI | COMPOSTELA VALLEY | 1 | Nabunturan NCHS |
| | DAVAO CITY | 2 | Davao City HS D. R. Aguinaldo HS |
| | DAVAO DEL NORTE | 1 | Tagum NHS |
| | DAVAO DEL SUR | 1 | Davao del Sur NHS |
| | DAVAO ORIENTAL | 1 | Mati NCHS |
| | GEN. SANTOS CITY | 1 | Gen. Santos City HS |
| | SARANGANI | 1 | Alabel NHS |
| | SOUTH COTABATO | 1 | Koronadal NCHS |
| | COTABATO | 5 | Dilangalen HS Kidapawan NHS Matalam MHS Pigcawayan NHS Tulunan NHS |
| | | | |
| | | | |
| | | | |
| | XII | COTABATO CITY | 1 |
| ILIGAN CITY | | 1 | Iligan City East HS Iligan City NHS (Rojas) |
| LANAO DEL NORTE | | 2 | Kapatagan NHS Lanao del Norte NHS |
| MARAWI CITY | | 1 | Marawi City NHS |
| SULTAN KU DARAT | | 1 | Esperanza MHS |
| | | | |
| | | | |
| XIII | AGUSAN DEL SUR | 1 | Agusan del Sur PHS |
| | BUGTAN CITY | 1 | Agusan NHS |
| | SIARGAO | 1 | Dapa NHS |
| | SURIGAO CITY | 1 | San Juan HS |
| | SURIGAO CITY | 1 | Surigao del Norte NHS |
| | SURIGAO DEL SUR | 1 | Jacinto P. Elpa NHS |
| | | | |
| ARMM | MAGVINDANAO | 1 | Parang NHS |
| | | | |
| | | | |
| | TOTAL | 44 | |

**WORKSHOP ON THE USE OF NSTIC BATCH B (MECHANICS) SCIENCE
EQUIPMENT WITH TRAINING ON REPAIR AND MAINTENANCE**

| TIME | DAY 1 | DAY 2 | ** DAY 3 | ** DAY 4 |
|------------|---|----------------------------|------------------------------|--|
| 8:00-8:30 | OPENING | | | |
| 8:30-9:00 | OVERVIEW of ACTIVITIES | | | |
| | BATCH B EQUIPMENT PRESENTATION AND DEMONSTRATION | DYNAMICS | REPAIR AND MAINTENANCE | REPAIR AND MAINTENANCE |
| 9:00-12:00 | FUNDAMENTAL QUANTITIES | | | |
| 12:00-1:30 | | L V N C H | B R E A K | |
| 1:30-5:00 | KINEMATICS | FORCES, SIMPLE MACHINES | REPAIR AND MAINTENANCE | REPAIR AND MAINTENANCE ACTION PLANNING EVALUATION CLOSING PROGRAM |
| OVERTIME | | | | |

* Program subject to modification as needs arise

As needs arise

** Refer to attached TR & M schedule for details