



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF EDUCATION, CULTURE AND SPORTS
Meralco Avenue, Pasig, Metro Manila

OFFICE OF THE SECRETARY

January 17, 1997

DECS ORDER
No. 4, s. 1997

ACTION PLAN FOR DECS MODERNIZATION PROGRAM

To: Undersecretaries
Assistant Secretaries
Regional Directors
Schools Superintendents

This Order describes activities necessary for the continued implementation of the DECS Modernization Program and identifies the DECS offices or units responsible for carrying out such activities.

I. Overview of DECS Modernization Program

The modernization program involves basically the introduction and use of modern technology particularly information technology and its various tools to improve teaching and learning processes and management and administrative operations in the educational system. (Refer to attached paper for a more detailed description of the modernization program.)

Three aspects of DECS operations have been initially identified to be modernized. These and their corresponding skills and competencies that need to be developed are as follows:

A. Educational Management

1. basic computer skills - word processing, spreadsheet, database management and use of the INTERNET
2. computer applications in personnel management, budgeting, procurement, logistic management, asset management, management information systems, fund generation, etc.

B. Teaching/Learning Processes

1. basic computer skills (to serve as tools) - word processing, spreadsheet, database management, and use of the INTERNET
2. computer aided instruction in specialized subjects such as English, Science, Mathematics, Technology and Home Economics, Social Studies, History, etc.

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C. Support Operations

1. basic computer skills - word processing and spreadsheet

II. Implementation Arrangements

The implementation of the modernization program will require the following activities and assignments of responsibilities:

A. Financing - initially from the DECS budget and external (outside DECS) sources - c/o Financial and Management Service, Budget Division

1. Equipment budget 1994 and 1995 (already used) and 1997 (proposed)
2. DECS Computerization Program budget for 1996 (already released to DECS)
3. Other sources - CDF, CIs, Adopt-a-School Program, etc.

B. Procurement and Distribution of Computers, Other Equipment, Courseware, Software

I. Procurement

- Determination of Equipment Items, Quantities, and Technical Specifications - c/o BEE, PSE, Task Force on Computerization, Multi-Media Task Force

- Public Bidding - c/o DECS-PBAC

2. Distribution (Note: Tentative allocation of computers and other equipment funded from 1996 budget)

80% secondary
15% elementary
5% administrative

- Identification of recipient schools and DECS Offices - c/o BEE, PSE, Task Force on Computerization, Multi-Media Task Force

3. Purchase, Inspection and Shipment - c/o Administrative Service

C. Training - c/o NEAP as overall coordinator

1. Training of educational managers - c/o Task Force on Computerization.

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2. Training of teachers - c/o NEAP, Center for Educational Technology, curriculum divisions of BEE and BSE, and Field Supervisors/Trainers
3. Training of support staff - c/o NEAP, Task Force on Computerization and HRDS

(Note: Requisite activities are accreditation of training service providers by NEAP with the assistance of Multi-Media Task Force and DECS Regional Offices and issuance of guidelines by NEAP on the use of 5% of MOOE for in-service training including training for skills/competencies required for DECS modernization program. NEAP has to advertise immediately a call for service providers that wish to offer mass training programs to DECS.)

D. Courseware/Software for Student Learning

1. Evaluation of available educational software - CDs, videos, etc. for possible use in schools - c/o Multi-Media Task Force
2. Development of multi-media aided curriculum components - c/o BEE and BSE
3. Development of customized multi-media instructional materials to support school curriculum - c/o Multi-Media Task Force and Center for Educational Technology

E. Evaluation

1. Implementation of modernization program - c/o OPS, BEE, and BSE
2. Impact on Student Learning - c/o NETRC and DECS Field Offices

The identified responsible DECS offices and units are directed to initiate the necessary action consistent with their assigned responsibility as described in this Order.

Please be guided accordingly.


RICARDO T. GLORIA
Secretary

1/21/89

Incl.:

As stated

Reference:

No n e

Allotment: 1-2--(M.O. 1-87)

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

BUREAUS & OFFICES

OFFICIALS

PROGRAMS

STATUS REPORT ON THE DECS MODERNIZATION PROGRAM

The DECS Modernization Program covers basically two aspects of the educational system, namely:

1. teaching-learning process
2. educational management

It involves the use of information technology and information-based decision support systems in these areas of DECS operations to achieve enhanced learning, cost-efficiency and effectiveness.

The activities and accomplishments under each of these areas are as follows:

I. Teaching-Learning Process

The Centre for Education and Technology was established on June 10, 1996. The Centre will explore limits of technology to push education and the limits of education to push technology. The Centre has three functions: (a) to review and certify titles of videos and CDs, (b) to provide training on multi-media, and (c) to develop multi-media aided curriculum, and a curriculum for transformation education relevant to economic liberation of the community. The Centre has two sections: A mini-school of the future and a showroom.

The mini-school of the future consists of an amphitheater for frontal learning and video viewing, a group work area, and rows of computers for individualized learning. The said school will be previewing computer-aided, video-aided, TV-aided (regular and cable) and databank-aided (Internet) instructions. On the other hand, the showroom features the latest gadgets for CDs, CD-ROMs, overhead projectors, language laboratory, color photocopiers.

At present, the regional science high schools are offering first and second year levels Technology and Home Economics (THE) - Computer Education while all other public high schools are offering THE (Computer Education) in third and fourth year levels. Similarly, computer education is included as an optional subject in Mathematics IV. Also, high schools under the Engineering and Science Education Project (ESEP), a DOST implemented project funded by World Bank, are already utilizing computer-assisted instruction in Science and Mathematics.

The teaching of THE (Computer Education) has been hampered by the shortage of computers in the high schools all over the country. Records show that only 16.22% of the public secondary schools have computers. Additionally, the lack of trained teachers also poses a problem. In 1995, about 200 THE teachers underwent training on computer education and about 300 science and mathematics teachers were trained on computer education to develop computer awareness and literacy.

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The DECS Multi-Media Task Force which was created in November 1995 to examine the use of modern technology to upgrade students, teachers and school administrators has covered the phases of listing of titles, previewing and certification, and development of curriculum. It has approved 63 CDs, 168 Videos, 35 Transparencies, 96 Software in Diskettes (3.5) and 63 Slides, for elementary alone. In the secondary level, 50 CDs, 219 Videos, 39 Transparencies, 70 Softwares in Diskettes (3.5), and 67 Slides have also been approved. It is now working on the lessons. At the same time, the members of the Task Force have been exposed to training from various computer companies.

The development of the transformation curriculum will start in July. It will involve the development of the multi-media aided curriculum and lessons suited for a 200-day school calendar is being field-tested. It should be ready to implement in time for the school opening in June 1997. A similar work is already on-going since February of this year in Central Luzon State University (CLSU) in Munoz, Nueva Ecija.

The training of teachers on multi-media will also start in July. The training modules will include basic orientation on multi-media including networking, multi-media for language, mathematics and science. The preparation of lesson plans will be incorporated in the training modules.

II. Educational Management

To enhance management operations at sub-national levels, computers will be used for educational planning, management, and administration. Computer-based information systems have already been developed for use of the regional offices, division offices, and schools. These information systems include the payroll system, accounting system, procurement (price monitoring), planning-budgeting systems, unified data gathering system, enrolment projection methodology system, schoolbuilding information system, and personnel information system.

A revised performance rating has been issued to all DECS field offices informing education managers that they will be rated on five items: (a) contribution to academic achievement of schools, (b) cultural development, (c) sports development, (d) resource management, and (e) innovation. Resource management calls for using ingenuity to raise resources and being cost-efficient and cost-effective in expenditure. Innovation calls for new ways of simplifying matters.

III. Hardware Acquisition and Staff Training

The equipment component of the 1996 budget for the DECS Modernization Program, intended to procure about 7,654 units of computers and 1,090 printers, will benefit approximately 752 high schools and 134 school division offices.

A complete laboratory will be set-up in each high school including the 200 division leader schools and 16 regional science high schools for use initially in THE (Computer Education) since regional science high schools and division leader schools have a limited number of computers.

The computers will also be used in the classrooms of the public high schools to benefit both the teachers and the students. It will serve as a learning tool in English, Science and Mathematics subjects, and a tool for making students computer-literate to be able to use the micros and software packages. The computer-based instruction in Science and Mathematics will blend with the existing secondary education curriculum. On the part of the teachers, the use of computer technologies would enable them to create exploratory situations for the students and develop more curriculum-based lessons that utilize data manipulation and self-discovery.

In the division offices, the computers will be used to enhance management operations. Computer-based information systems have already been developed to be utilized at the division level.

The purchase of the computers will be staggered in batches in order to take advantage of dives in prices as new models emerge in the market, and to benefit from advances incorporated in new models for the same or lower price as previous models. The computers will be used mainly for computer-aided learning.

It may be mentioned that training is on-going. The training component of the P375 million budgetary support for 1996 will be used to expand the pool of trained teachers, both in computer education and computer-aided instruction. External expertise as well as in-house trained teachers in division leader schools will be tapped for the training program.

To date, a total amount of P313 million has been released for the DECS Modernization Program.