



EWTEC lecturers make training contents satisfactory under technical guidance of JICA Experts

EWTEC Enhances Training Contents

Emphasis on Practical Skills

Mr. Tamotsu Ishii, JICA Expert, trained for lecturers of Drilling Machinery Maintenance Technology course for grading up of their practical skills (2009.10~11). EWTEC is the Centre of training for



capacity building in water supply sector. Not only acquiring knowledge but

also "tradition of technology" is considered as an essential part of the Centre. Without enhancing tradition of technology (skills), they will not be able to achieve the

goal, "autonomy". To become aware of importance of skills and to balance knowledge and skill in the training curriculum, a practical training was conducted by Mr. Ishii.

Contents of Practical Training

- 1) Overhaul of diesel engine and generator
- 2) Performance inspection by loading test
- 3) Plan, design and manufacturing of tools for the above works.

Purpose of Training

- 1) To learn reality of the generator.
- 2) To recognize difference between theory and fact.

- 3) To learn the criterion is the empirical rules based on experiences and five senses.



Results Expected

- 1) To understand the meaning of it. "Now I've got it!"
- 2) To obtain feeling of accomplishment in manufacturing and repairing.
- 3) To share the vision of EWTEC.
- 4) To form serious attitude and motivation for upgrading.



Spruce-up of the workshop is the first step of working. Safety 1st!



International GIS course will be held in February 2010 inviting participants from 15 countries. The course guide is being distributed.



Seminar for Teaching Methodology

Mr. Steven Sundstrom, JICA expert, had a discussion with 4 teachers from Water Technology Department of TVETC Awasa in SNNPR on October 15 and learned about a particular style of teaching methodology in Ethiopia. In addition, he visited water treatment plant in Adama and Nazret, respectively, on October 23 together with the participants of Water Supply Engineering course and observed their area of interest in the field.

Based on the observations, Mr. Steven held seminar on teaching methodology 3 times in his assignment period. The participants are 5 lecturers from EWTEC and a young engineer from MoWR.

<Participants>

Ato Melaku Nesibu
 Ato Getachew W/Michael
 Ato Getachew Lem
 Ato Mekkonen Aweke
 Ato Getahun
 Ato Antenah (MoWR)

<Contents>

First (October 30): Explanation and discussion on the Manual of IEC/Teaching Methodology.

Second (November 2): Explanation of "knowhow of teaching" (Teaching Tips) and demonstration class by taking VIDEO.

Third (November 4): Watching at VIDEO and improved the class.

Training Courses 2009.1~12

BASIC COURSE FIRST STAGE	NUMBER OF PARTICIPANTS	PERIOD
Groundwater Investigation (GWI)	20	2009.4~2009.7
Drilling Technology (DT)	10	2009.4~2009.7
Drilling Machinery Maintenance (DMMT)	10	2009.4~2009.7
Water Supply Engineering (WSE)	20	2009.2~2009.3
Electric Machinery Maintenance (EMMT)	20	2009.2~2009.3

BASIC COURSE SECOND STAGE	NUMBER OF PARTICIPANTS	PERIOD
Groundwater Investigation (GWI)	18	2009.11~2010.2
Drilling Technology (DT)	20	2009.11~2010.2
Drilling Machinery Maintenance (DMMT)	10	2009.11~2010.2
Water Supply Engineering (WSE)	17	2009.8~2009.9
Electric Machinery Maintenance (EMMT)	22	2009.8~2009.9

INTERNATIONAL COURSE FOR AFRICA	NUMBER OF PARTICIPANTS	PERIOD
Groundwater Modeling	30	2009.8~2009.9



In Ketar river basin located in the north-eastern part of Central Ethiopia Rift Valley, many villages introduce water from springs in the base of mountains.

Teaching Methodology Guide and Issue

Guide

- ◆ Some modification will be made for IEC/Teaching Methodology Manual. Consulting with Mr. Akira Matsumoto (Program Evaluation 1), JICA Expert, the format of the execution report will be arranged.
- ◆ Reviewing the modules of 5 basic courses, weight of practical training (skills) will be increased. Teaching methodology will be transferred to the lecturers throughout the OJT.

Issue

- ◆ Two coordinators for WSE and EMMT resigned. It is necessary to train for the course coordinators in future not only giving the Manual but also providing training for them directly when the replacement has been made.

TRAFFIC

トラフィック

JICA Expert 2009.9~12

Akira Kamata (Leader/Organizational Plan) 8.26~9.22, 12.6~12.29

A. Matsumoto (Program Evaluation)
12.14~12.29

Masahiko Ikemoto (Program Evaluation 2/Training Management) 8.26~10.17



T. Matsumoto (Hydrogeology/Volcanology) 11.16~12.9

Naoaki Shibasaki (Groundwater Model) 8.26~9.22

Hiroshi Takashima (Water Supply Engineering) 9.20~10.10

Tamotsu Ishii (Drilling & Electric Machinery) 9.16~11.27

Steven Sundstrom (IEC/Teaching Method) 10.12~11.8

R. Matsumoto (Information Management) 8.21~9.17

T. Suzuki (Drilling



technology) 12.24~

Guest

8.27
Mr. Kazunori Oshiyama, Director General Africa Dept., JICA

9.2
Mr. Hiroumi Yamagai, Consultant
9/14
Participants for Groundwater Modeling Course

MSF

Mr. Ikemoto, JICA Expert, participated in MSF held at Awasa on 15-16 October 2009. He presented activities of EWTEC and the results of needs survey.

EWTEC's New Head

Mr. Endris Mohammed came into office as the Acting Head of EWTEC



Since Mr. Marukus Tefera former Head of EWTEC, was transferred to the MoWR, Mr. Endris Mohammed filled seat as the Acting Head of EWTEC. Mr. Endris received the OJT by JICA expert at the beginning of his career in EWTWC and presently accedes the coordinator of Drilling Machinery Maintenance Technology (DMMT) course.

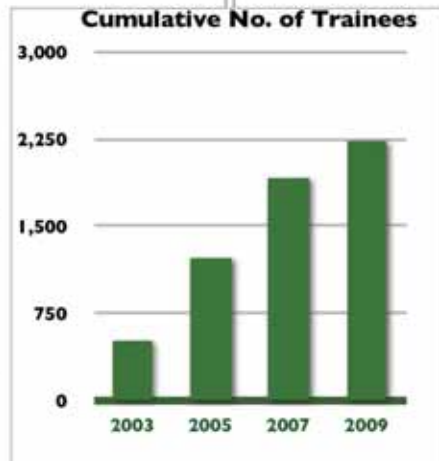
Expansion Plan of EWTEC Facilities will start soon. Open new training courses in future to meet various needs in water supply sector

EWTEC has four lecture rooms, one small conference room, administration building, dormitory, canteen etc. Capacity of the dormitory is forty (40) with two persons per room. Therefore, three basic courses (GW:20, DT:10, DMMT:10) and another two basic courses (WSE and EMMT, 20 participants respectively) are separately conducted in a year. EWTEC has trained 2,236 engineers and technicians from government offices, TVET and international courses since its beginning in 1998. In order to achieve the goal of National Water supply Plan (water coverage 100% in urban area and 98% in rural area by year 2012), the plan requires fostering of large number of engineers and technicians in the government offices, TVETs, NGOs and private companies. As a centre of capacity building, EWTEC has a role

of training and research in the field of groundwater investigation, borehole drilling, machinery maintenance and appropriate technologies. EWTEC plans to start new training courses related to the field of water resources and water supply engineering from October 2010 based on the analysis of "needs survey" conducted throughout interview and questionnaire in the regional offices, NGOs and Private Companies. In accordance with opening of new courses, expansion of the facility is urgently needed, thereby MoWR plans to start construction of new facility in April to May 2010 with assistance of Japanese counterpart fund under monitoring of JICA Experts.

JICA Experts Propose Future Vision of EWTEC

In order to meet various needs from water supply sector and establish self-sustainability, one option is EWTEC becomes a semi-autonomous or autonomous body in the future. JICA Experts propose a vision and a business plan for training, groundwater investigation, water well drilling, machinery maintenance services etc for self-sustainability. The idea will be discussed in near future.



Curriculum Improvement

Improvement of GWI

Mr. Toshiyuki Matusumoto, JICA Expert, made comments on GWI that the curriculum covers wide aspects of hydrogeology although it is textbookish but the lecturer provides wide array of case studies based on his experience. It is interesting and useful for the participants according to monitoring of the class by the Expert. On the other hand, the course will become more effective if some practical techniques are exercised precisely.



Based on the needs survey, a new course will be established next year, which is targeting Woreda hydrogeologists and engineers.

In addition, the course contents and textbooks of specific training courses will be planned in order to learn several important subjects of GWI more deeply. It is also

planned to conduct the OJT for the course coordinators next year.

Field Training (Research)

A field training (research) will be conducted in the central or southern part of the Rift Valley in collaboration with Addis Ababa University (AAU). Discussion between AAU will be continued.

JICA Expert had several discussions with JICA Senior Volunteer for Addis Ababa Water and Sewage Authority (AAWSA) and agreed with technical collaboration between EWTEC and AAWSA although it is still informal connections. Data collection of water wells and rehabilitation of the wells might become subjects of collaboration.

Improvement of WSE

Mr. Hiroshi Takashima, JICA Expert, visited WSE class and made comments on the course from point of improvement. Since the lecture puts emphasis on the theory too much, JICA Expert added a module of case studies and lectured it by himself. In addition he provided a lecture on total management (schedule management/quality control/safety keeping/cost management) and made participants aware of relevancy between each items. He provided subject on "observing points" for them before visiting the site in order to upgrade their capacity. In future, a text book for O&M of water supply system in Woreda level will be prepared.



Voices of Ex-trainees (Appreciation for course attended and utilization of skills and knowledge)

In order to hear the ex-trainees' view such as how they acquired better and basic/advance skills during the training, and also how they can utilize the skills and knowledge in their office and fields, some sample study was conducted. As the results of interview, the following answers are drawn from ex-trainees.

- /To avoid accident, it becomes much more attention and aware of "safety" in his works and procedure after training.
- /It becomes much more accuracy and efficient works conducted than before. (Productivity was drastically increased.)
- /It enabled him to better treatment with proper trouble shooting.
- /Through periodical maintenance on various machines, there are much longer life of using.

Interviewed by Mr. Akira Matsumoto, JICA Expert.

From Editor

There was a happening that Mr. Markos, the former Head of EWTEC, was transferred to MoWR in November 2009. EWTEC office staff were balled up for the mean time, however, EWTEC has been shaken down now happily and the 2nd Stage of 3 basic courses went underway behind about one month. In accordance with the progress of Business Process Reengineering (BPR) of MoWR, EWTEC is now under the umbrella of Water Sector Support & Capacity Building Directorate (WSSCBD). The director of WSSCBD, Dr. Markos Wijore, visited EWTEC and had a familiar talk with the coordinators, instructors and assistants. We, JICA Experts, are expecting that EWTEC keep going to reach the goal of EWTEC Project (Phase 3) under management of new Acting Head, Mr. Endris Mohammed.

Ethiopia Water Technology Center (EWTEC)
P.O. Box 5744, Addis Ababa, ETHIOPIA
Tel. (251-11) 4431125, 4431126, 4431127
Fax. (251-11) 4431128
Open: 08:30 - 17:00 (Monday - Friday)
E-mail: ewtec@ethionet.et
HP: <http://www.ewtec.org.et/>



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Photographs in the front page was taken by Mr. Masahiko IKEMOTO (Program Evaluation 2/Training management)

