

## Technical Assistance to TVETCs

TVETC is one of the most important educational institutions in Ethiopia in the technical fields. EWTEC is therefore assisting to upgrade the TVETCs' educational capacity.



Awassa TVETC



Welding practice

Technical and Vocational Education and Training Colleges (TVETCs) in each province are core institutions for training technical students in various fields so as to exactly match the local needs. The training of electro mechanical maintenance technology (EMMT) at TVET colleges is a key issue for achieving economic development. In addition, it is also essential for the groundwater development and water supply projects. However, TVETCs do not have sufficient training capacity to satisfy demand due to a lack of training experience and equipment for training.

To resolve this issue, the Japanese government donated equipment such as welding machines, generators and submersible pumps for EMMT student training to all 9 TVETCs in Ethiopia in 2010.

In conjunction with this, EWTEC started training to upgrade the TVETCs' training capacity in January 2011. As of August, EWTEC had already conducted EMMT training for three TVETCs, in Jijiga, Awassa and Bahir Dar.



Lesson on how to operate a generator

The course consists of five modules.

Module 1: Basic electricity

Module 2: Basic electronics

Module 3: Electrical machine control

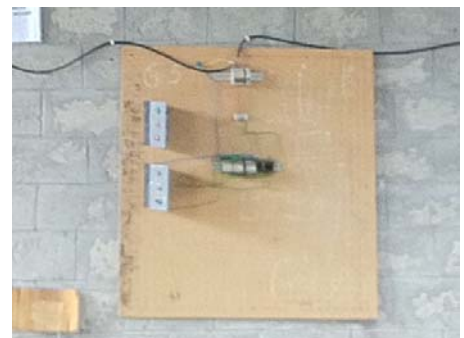
Module 4: Submersible pumps

Module 5: Programmable logic controller

Notes: Module 5 "Programmable logic controller" was included in the latest Bahir Dar TVETC training.



Lesson on how to operate a welding machine



Switchboard model for lesson

| Name             | Training Period  | No. |
|------------------|------------------|-----|
| Jijiga TVETC     | Jan 14 to Jan 30 | 42  |
| Awassa TVETC     | May 7 to May 21  | 47  |
| Bahir Dar TVETEC | Jun 11 to Jun 25 | 37  |

### Contents

|                                |   |
|--------------------------------|---|
| TVETC Training                 | 1 |
| First TOT for TVET instructors | 2 |
| New Rig for deep well ready    | 2 |
| Recently completed courses     | 2 |

## First Training of Trainers on EMMT for TVET Instructors Conducted



Field trip to sewage treatment plant



All participants of TOT

Through the training on EMMT at the three TVETCs conducted in 2011 and the needs survey result for TVETC training conducted by EWTEC and JICA in May 2011, it was recognized that there is a dire need to increase the technical level of TVET instructors.

Moreover, it was felt that the instructors at TVET colleges would need to be given instruction in how to effectively use the new equipment donated by the Japanese Government in 2010. EWTEC, therefore, conducted the first training of trainers (TOT) for TVET instructors.

18 instructors with bachelor degrees and teaching experience of 3 to 23 years were selected from the 9 TVETCs to take part in the TOT on EMMT (electro mechanical maintenance technology) course at EWTEC for 17 days in August 2011.

The TOT course, which focused 70% on

practice and 30% on theory, covered the following subjects.

Module 1: Pump switch board maintenance

Module 2: Introduction to Programmable logic controller

Module 3: Submersible pump O&M

Module 4: Diesel engine maintenance

Module 5: Auto electric system

Module 6: Field training

Lesson on switchboard system



## New deep well drilling equipment is ready to go

There is an ever increasing need to develop deeper groundwater to secure cleaner water sources. EWTEC has introduced new equipment for deep well development to address this need, with financial assistance from the Japanese Government. This equipment is now ready for training.



## Courses completed between May & Aug

| Name of course                  | Period           | Student |
|---------------------------------|------------------|---------|
| EMMT TVETC course for Awassa    | May 7 to May 21  | 47      |
| EMMT TVETC course for Bahir Dar | Jun 11 to Jun 25 | 35      |
| GWI basic course                | May 3 to Jul 27  | 20      |
| DMMT basic course               | Apr 26 to Jul 27 | 9       |
| DT basic course                 | Apr 26 to Jul 27 | 10      |
| EMMT TOT for TVETC courses      | Aug 10 to Aug 26 | 18      |

## EWTEC

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