

BIBS - Exporting Vocational Training in Urban Water Management to India



The overall objective of the project is to develop a sustainable German-Indian partnership assigned with the task to train employees working in the field of environmental technology. During the course of the project vocational training modules will be developed for training in Indian urban water management. Training will be carried out along the lines of the German dual training system with the content modified to suit Indian conditions. The modular training courses will enable Indian training institutions to train their staff while meeting the requirements of urban water management, to go on to qualify and further train urban water management staff (train-the coach concept). The project is aimed at unskilled and semi-skilled workers as well as first year students with a basic knowledge of craftsmanship skills who will receive qualification and further training on site in the following fields:

- Transport, treatment and distribution of drinking water
- Transport and purification of wastewater

Train-the-Trainer Concept

In line with the Train the Trainer approach, training will be offered in Germany to Indian trainers with knowledge of occupations in environmental technology. The training should deepen their specialist knowledge and teach them a variety of proven educational teaching methods so that the curricula once implemented on-site is in accordance with the needs of the recipients. The next step will be for the trainers to carry out the training modules in Pune under the guidance of their German instructors and check for applicability, and modify as needed.

Creating diversified (multiple) learning arrangements of this kind, requires the project partners to be intensively responsive both to the training requirements as well as to the cultural characteristics of the target groups. This will include taking into account the specific business and work culture of the Indian cooperation partners, and staff of the local wastewater treatment plants. Additionally, there is the special challenge of training staff in their respective local languages and includes taking into account the possible lack of reading and writing skills which may be prevalent. Therefore, the project has also the goal of using innovative and pictorial learning environments to visually enrich the training with real, physical models and virtual models (eg 3D simulations in the ServLab) in order to qualify the target group in terms of action-oriented teaching.

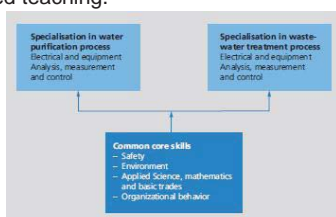


Figure: BIBS modular curriculum



Abb.: Physikalisches Modell

Figure: Virtual 3D learning environment



Figure: Training of Indian trainers at ISWA

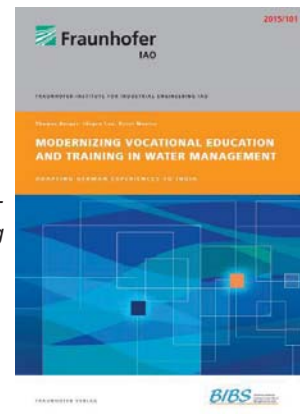


Figure: Publication: „Modernization of Vocational Education and Training in Water Management“

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