People Management I Workshop
IWA World Water Congress,Tokyo
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Creating Training and Technical Development Center

inspiring change

YOU AND THE IWA: AGENTS OF CHANGE

- Introduction of The Training and Technical Development Center
  - Background of establishment
  - Characteristics
  - Practical training facilities
  - Bureau training system
  - Knowledge bank system
  - Technical experts
  - Major development results
  - International cooperation
- Introductory Video Movie
- To the Future

Background of Establishment

- Passing down technical capabilities in the bureau to next generation
- Improving abilities of staff, and promoting R & D that directly corresponding to our diversifying needs

Training and Technical Development Center

Water treatment experiment

Characteristics

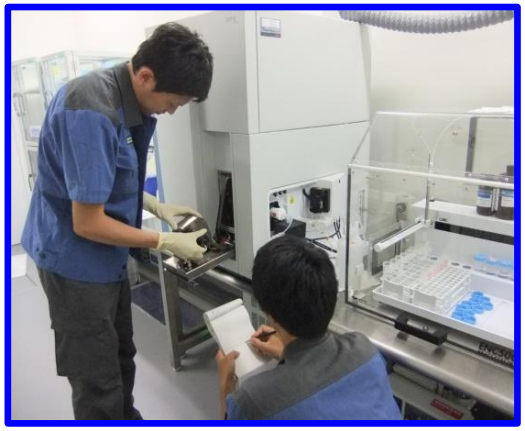
- The center was opened in April 2005 as one of the largest waterworks training facilities in Japan
- The center feature a training environment which imitates actual sites as much as possible

Piping practice facility for large bore pipe

Electrical equipment maintenance practice facility

Practical Training Facilities

Water examination room



Electrical training room

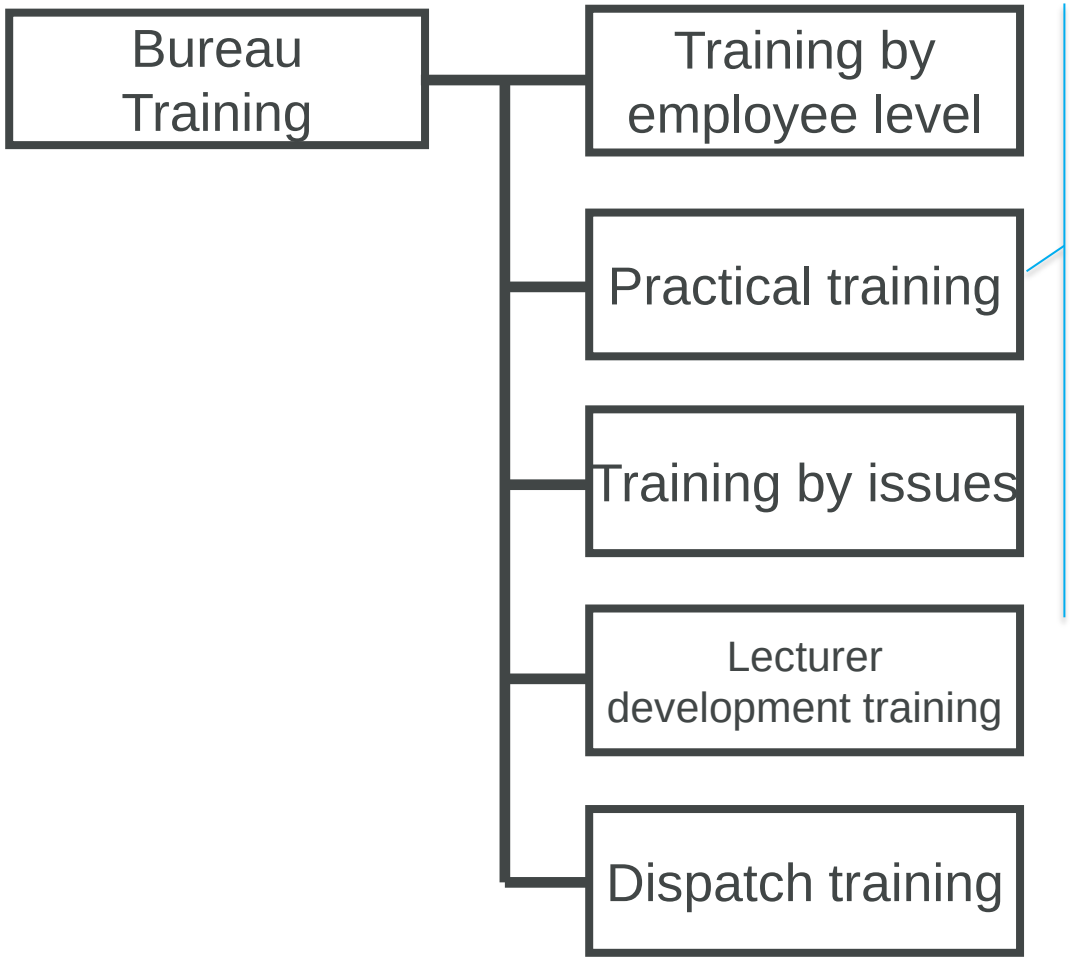
Piping practice facility small-diameter piping

Water purification training miniaturized plant

Mechanical training room

Training Field

Bureau Training System



- Using technical practice training facilities as follows,
  - Electrical training room, Mechanical training room, Piping practice facility, Training field, Miniaturized water purification plant.

Practical Training (Technical) 55 courses a year

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Knowledge Bank System

- A date base of information, the knowhow and implicit knowledge in the bureau.
- The staff member can refer to the information by each own PC

Excavation with tunneling machine
Transportation of parts

The supporting structure can get in the way,
tunneling machine is split into two and tran
the starting shaft

2-5 Joint mixture (putty) for water pipes and freezer vessels

The joint mixture used is putty (JIS A-5752 glass putty for metallic fittings). Putty does not expand or contract much upon freezing, retains its water-tightness, is easy to work with, and is inexpensive.

2-6 Crimping tool

Crimping tools press down on lead, PVC or stainless steel pipes using a hydraulic jack to stop the water flow.

Crimping tool

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Technical Experts

Certification standards

①Outstanding knowledge or experience with technologies
② Much work experience
③ Enthusiastic about training and instruction for young staff members.
④ Proactive and passionate about own work.

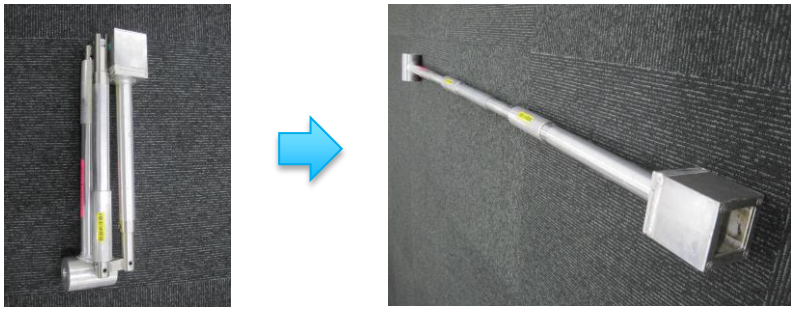
	Field of Experts	No.
1	**Design Construction Management**	**20**
2	**Water Purification**	**10**
3	**Water Distribution**	**16**
4	**Water Supply**	**9**
5	**Water Operation**	**4**
6	**Water Quality**	**6**
7	**Water Source Management**	**5**
8	**Mechanical & Electrical Maintenance**	**2**
	Total	**71**

Major Development Results

Various types of water meters

Automatic meter-testing equipment

Internal pipe inspection robot



Folding-type valve opener

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International Cooperation

Acceptance of overseas trainees

Asian Waterworks Utilities Network of Human Resource Development

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Introductory Video Movie

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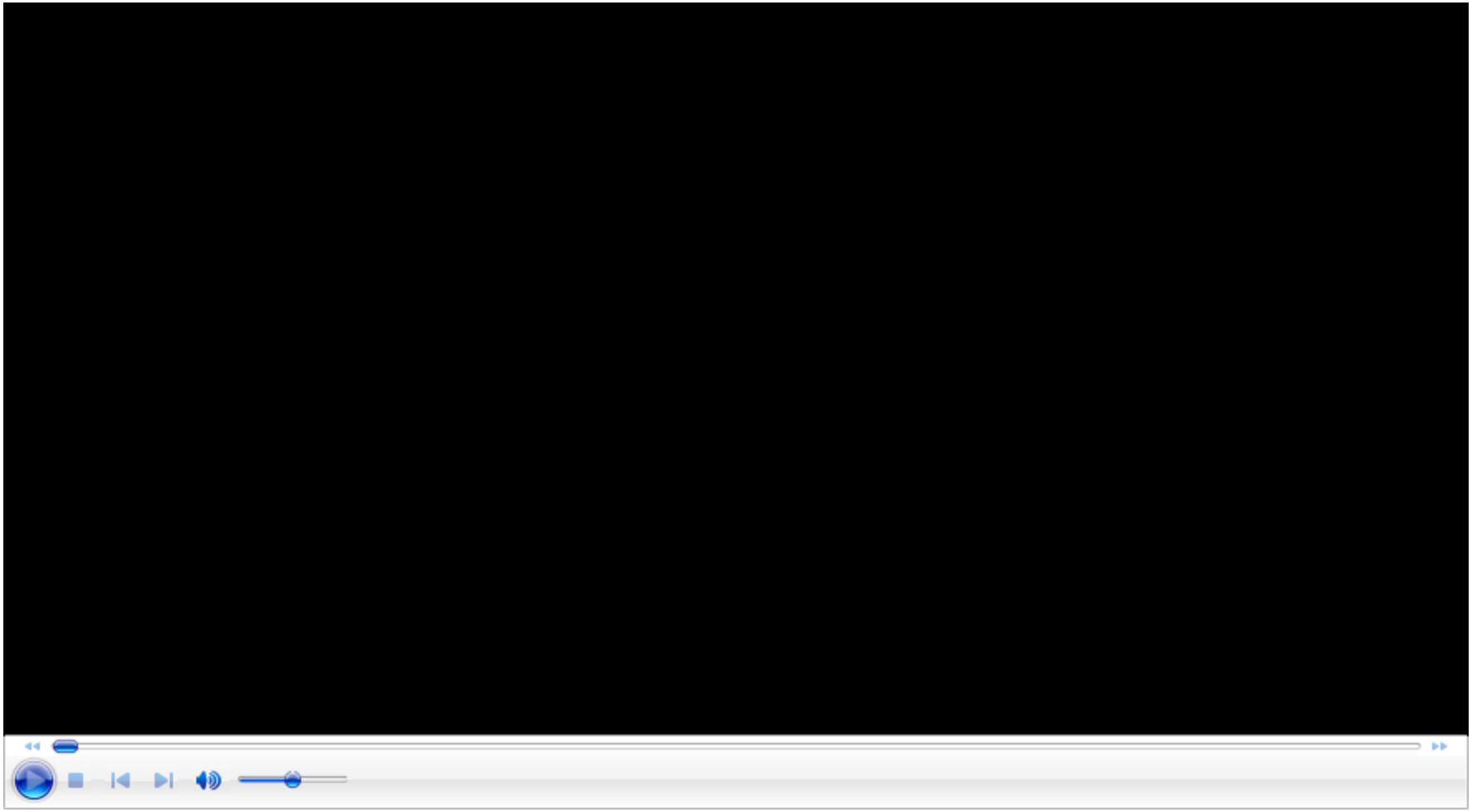
Introductory Video Movie



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To the Future

In order to stably supply safe and tasty tap water to the customer

Training section and R & D section will combine efforts to improve abilities of staff members