

Training

Promoting sustainable technical solutions is part of IBTech® mission; so for the company, training is a key activity in order to disseminate and generate skills in companies, water operator agencies and independent consultants on foundations, concepts, case studies, design, applications and/or laboratory techniques used on wastewater treatment, water conditioning for first use and biogas utilization. The above, oriented to the design and operation of physicochemical, anaerobic, aerobic biological and for nutrients removal systems as well as the process control elements. All the necessary teaching material is provided.

The company is adapting to the needs of the client. The courses can be:

- Full diplomas (180hrs) or just some modules of them (short courses)
- They can be face-to-face or online
- The issued certificate can have official validity if requested



Training topics

The IBTech® courses may fit the profile of the participants, whether operators, plant managers, designers, officials or recent graduates. The subjects taught are the following:

General water treatment

- Basic concepts of water
- Introduction to the wastewater treatment
- Hydraulic and thermodynamics
- Pumping and energy efficiency
- Unit operations for wastewater treatment
- Stabilization and management of sewage sludge
- Integration of treatment plants
- Technical-economic evaluation of projects
- Sanitation of river basins and natural systems built
- Life cycle analysis applied to wastewater treatment

2 **Anaerobic treatment of wastewater and solid waste with use of biogas**

- Anaerobic wastewater treatment
- Anaerobic digesters for sludge, solid agricultural residues and OFMSW
- Management, storage, safety and disposal of biogas
- Gas treatment for energy use

2 **Aerobic treatment of wastewater and sludge with nutrient removal**

- Aerobic processes for wastewater treatment with nutrient removal
- Compact technologies for wastewater treatment
- Mathematical modeling of biological processes
- Aerobic digestion

2 **Water treatment for first use (human consumption or industrial use)**

- Water treatment for human consumption
- Water treatment for industrial use and reuse



Diplomas and courses with official validity

The National Association of Water and Sanitation Companies (ANEAS in Spanish) is launching a series of courses and diplomas in conjunction with prestigious and worldwide-recognized universities and research institutes, such as the National Autonomous University of Mexico (UNAM) and the National Polytechnic Institute (IPN). In order that training is the most practical, useful and grounded to the real needs of the operating agencies, these diplomas have been importantly supplemented by IBTech®:



In classromm or On-line (180 hrs)
Aerobic treatment



In classroom or On-line (120hrs each one)
Aerobic/anaerobic treatment

CONOCER/SEP Certifications

IBTech® offers trainings that meet the guidelines of CONOCER (SEP), as our instructors are certified under the competency standards of the SEP for teaching and design of courses (EC 217 and EC 301 respectively). Diplomas offered by this company are scarce in the market as they are taught by full-time trainers; our instructors are experts in wastewater treatment with practical experience in the field and before groups of research and postgraduate studies at UNAM.



Experience

In addition to the training provided when delivering the installed plants so that the client can operate them correctly, at the customer's request, IBTech® has provided specific courses for staff of:

- Private companies




- Institutions and guilds



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