

OVERVIEW OF WASTEWATER TREATMENT

Course Description

Wastewater treatment plants are complex systems, composed of different units and processes, which are related and have an impact on each other's operation. Therefore, the possession of some general knowledge about the overall function and construction of the wastewater treatment plant is necessary to effectively operate specific treatment units.



This training course aims to introduce participants with wastewater characteristics, basic concepts for its treatment, and variety of the treatment methods.

Target Group

This training course is developed for professionals of water supply and sewerage utilities, and it is especially useful for technicians, engineers and specialists working in wastewater treatment plants, as well as for the specialists of wastewater collection sector who aspire working in a treatment plant.

Objectives of the Training Course

At the end of this training course, the participants will be able to:

- Identify various types of waste discharges;
- Explain the importance of wastewater treatments and introduce the effects that discharge of untreated wastewater has on humans and the environment;

- Comprehend the composition of wastewater and describe its physical, chemical and biological characteristics;
- Describe various types of wastewater treatment plants;
- Comprehend the schematic plan layouts of a typical wastewater treatment plant;
- Describe various types of process units used for preliminary, primary and secondary treatment and explain how they achieve the target level of treatment;
- Distinguish between mechanical and biological treatment;
- Explain the various types of units used for solids treatment;

Training Method

The training is based on lectures presented in PowerPoint, combined with discussions and case studies. In addition to lectures and discussions, participants will make a study visit at a wastewater treatment plant.

Training Course Materials

The participants of this training course will be provided with the Training Manual "Overview of Wastewater Treatment Plant". In addition, the participants will receive certificate of attendance.

Registration fee

Members of SHUKALB/SHUKOS: 13,000

ALL/person

Non-members: 16,000 ALL/person

This fee includes course materials, coffee breaks and lunch breaks.