

SECONDARY WASTEWATER TREATMENT – ACTIVATED SLUDGE PROCESSES

Course Description

The activated sludge process is the most widely used biological method for wastewater treatment. When properly operated, these methods produce the most high quality effluent compared to other biological methods. In order to reach the desirable treatment efficiency, it is important to use the adequate operation practices, accurately estimate the control parameters, as well as take the proper measures for the identification and correction of problems.



This training course addresses the main issues of the activated sludge processes operation and maintenance, and will provide participants with sufficient knowledge for their timely identification and repair.

Target Group

This training course is developed for professionals of water supply and sewerage utilities, and it is especially useful for engineers, technicians and specialists working in wastewater treatment plants, which use activated sludge processes as a treatment method.

Objectives of the Training Course

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

- Comprehend the concept of activated sludge treatment processes;
- Explain the principles of the activated sludge process and its controlling parameters;

- Distinguish between different activated sludge processes;
- Place a new activated sludge process into service and safely conduct its operation and maintenance;
- Operate the activated sludge processes during normal and abnormal conditions;
- Recognize factors that indicate an activated sludge process is not performing properly then identify the source of the problem and take corrective actions;
- Describe the various methods of determining return activated sludge and waste activated sludge rate;
- Select the best methods of calculating waste activated sludge and return activated sludge for your plant conditions;
- Explain the controlling parameters of a secondary clarifier and conduct its operation and maintenance;

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 where activated sludge is applied as a treatment method.

Training Course Materials

The participants of this training course will be provided with the Training Manual "Secondary Wastewater Treatment – Activated Sludge Processes". In addition, the participants will receive a certificate of attendance.

Registration Fee

Members of SHUKALB/SHUKOS: 22,000 ALL/person

Non-members: 25,000 ALL/person

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