



# TROUBLESHOOTING AND PROCESS CONTROL FOR SEWAGE TREATMENT

## COURSE DESCRIPTION

The objective of this module is to improve the knowledge and understanding on process control and troubleshooting of mechanical biological processes in example activated sludge process and fixed film process use in the sewerage treatment plant.

## COURSE OBJECTIVES

At the end of the course, participants will:

- Monitor and control activated sludge and fixed film processes
- Interpret the monitoring data
- Understand the basis of monitoring parameters such as DO, sludge recycling and sludge wasting control for activated sludge
- Understand typical problems pertaining to the activated sludge and fixed film process
- Know how to differentiate between normal and abnormal condition of the activated sludge and fixed film process
- Know how to troubleshoot an abnormal condition

## COURSE CONTENT

- Overview of Sewage Treatment
- Process Control for Activated Sludge Process
- Troubleshooting for Activated Sludge Process
- Process Control for Fixed Film Process
- Troubleshooting for Fixed Film Process

## COURSE DURATION

2 Days

## WHO SHOULD ATTEND

This course is recommended for Consultants and Contractors involved in managing and operate sewage treatment plants, officers, Engineers, Managers and other technical personnel involved in the development of sewerage system.

## COURSE FEE

RM800.00 per person

## COURSE SCHEDULE

DAY ONE	
9.00 am – 10.30 am	<input type="checkbox"/> Introduction <input type="checkbox"/> Overview of Sewage Treatment
10.30 am – 11.00 am	<b>Coffee/Tea Break</b>
11.00 am – 1.00 pm	<input type="checkbox"/> Process Control for Activated Sludge Process
1.00 pm – 2.00 pm	<b>Lunch Break</b>
2.00 pm – 3.30 pm	<input type="checkbox"/> Troubleshooting for Activated Sludge Process
3.30 pm – 3.45 pm	<b>Coffee/Tea Break</b>
3.45 pm – 5.00 pm	<input type="checkbox"/> Troubleshooting for Activated Sludge Process (cont.) <input type="checkbox"/> Q&A
DAY TWO	
9.00 am – 10.30 am	<input type="checkbox"/> Site Visit to STP
10.30 am – 11.00 am	<b>Coffee/Tea Break</b>

11.00 am – 1.00 pm	<input type="checkbox"/> Process Control for Fixed Film Process
<b>1.00 pm – 2.00 pm</b>	<b>Lunch Break</b>
2.00 pm – 3.30 pm	<input type="checkbox"/> Troubleshooting for Fixed Film Process
<b>3.30 pm – 3.45 pm</b>	<b>Coffee/Tea Break</b>
3.45 pm – 5.00 pm	<input type="checkbox"/> Health and Safety <input type="checkbox"/> Q&A Session