



# TERTIARY PROCESS IN SEWAGE SYSTEMS

## COURSE DESCRIPTION

This course provides understanding on how tertiary processes works in a sewerage systems. Topic include tertiary wastewater treatment; removal of nitrogen and phosphorous in wastewater; disinfection in treated wastewater and removal of dissolved inorganic in wastewater.

## COURSE OBJECTIVES

At the end of the course, participants will understand and be familiar with:

- Tertiary wastewater treatment.
- Removal of nitrogen in wastewater.
- Removal of phosphorous in wastewater.
- Disinfection of treated wastewater.
- Removal of dissolved inorganic in wastewater.

## COURSE CONTENT

- Introduction to tertiary wastewater treatment
  - Overview Objectives Of tertiary Wastewater treatment
  - Residual Constituents in Secondary treated Effluent
  - Impacts Of Residual Constituents
- Removal Of Nitrogen in Wastewater
  - Overview Sources of Nitrogen in Wastewater
  - Physical /Chemical Processes for Nitrogen Removal
  - Biological Processes for Nitrogen removal
- Removal of Phosphorus in Wastewater
  - Overview Sources of Disinfection Options in Malaysia
  - Physical /Chemical Processes for phosphorus removal
- Disinfection in Treated Wastewater
  - Overview Sources of Disinfection Options in Wastewater
  - Chlorination
  - Ozonation
  - UV Disinfection
- Removal of Dissolved Inorganic in Wastewater
  - Types Of Dissolved Inorganic in Wastewater
  - Overview of Treatment Options
  - Chemical Precipitation
  - Selective Ion Exchange
  - Filtration
  - Membrane Process

## DURATION

1 Day

## WHO SHOULD ATTEND

Engineers and Technical personnel involved in The Sewerage Industry

## COURSE SCHEDULE

9.00am – 9.45am	<input type="checkbox"/> Introduction to tertiary wastewater treatment
9.45am – 10.45am	<input type="checkbox"/> Removal Of Nitrogen in Wastewater
11.00am – 12.45pm	<input type="checkbox"/> Removal of Phosphorus in Wastewater
2.00pm – 3.30pm	<input type="checkbox"/> Disinfection in Treated Wastewater
3.45pm –4.45pm	<input type="checkbox"/> Removal of Dissolved Inorganic in Wastewater
4.45pm – 5.30pm	<input type="checkbox"/> Group Discussion

## COURSE FEE

RM550.00