



DESIGN OF PUMP STATIONS

COURSE DESCRIPTION

The course outlines the design aspects of pumping station; features, facilities and functions of pumping station; and undesirable effects of a pumping station.

COURSE OBJECTIVES

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

- Function of pumping station
- Types and configuration of pumping station in sewage application.
- Design aspect of a pumping station.
- Undesirable effects of pump stations.
- Features of pumping station facilities

COURSE CONTENT

- Introduction
 - Function of Pumping Station
 - Types of Pumping Station in Sewage Application
 - Typical Configuration of Pumping Station in Sewage Application
 - Submersible Pump & Motor
 - Submersible Pump with Motor Above Ground
 - Dry Well Submersible Pump & Motor
 - Dry Well Submersible Pump with Motor Above Ground
 - Wet Well Submersible Pump & Motor
- Design Aspects of a Pumping Station
 - General
 - Siting
 - Economics
 - Design Life
 - Design Capacity
 - Overflow Conditions
 - Screening
- Undesirable Effects of Pump Station
 - General
 - Air-pulping
 - Aerated Flow
 - Air Entertaining Vortices
 - Submerged Cortices
 - Swirling Flow
 - Large-scale Turbulence
 - Stagnation Flow
- Features of Pumping Station Facilities
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DURATION

2 days

WHO SHOULD ATTEND

Engineers and Technical personnel involve in the design and certification of sewerage systems and sewerage systems operations personnel

COURSE FEE

RM850.00 per person

COURSE SCHEDULE

9.00am – 10.30am	<ul style="list-style-type: none">▪ Introduction ; Function, Types and Typical Configuration of Pumping Station in Sewage Application
10.30am – 10.45am	Coffee/Tea Break
10.45am – 12.45pm	<ul style="list-style-type: none">▪ Design Aspect of a Pumping Station
12.45pm – 2.00pm	Lunch Break
2.00pm – 3.30pm	<ul style="list-style-type: none">▪ Undesirable Effects of Pump Station
3.30pm – 3.45pm	Coffee/Tea Break
3.45pm –4.45pm	<ul style="list-style-type: none">▪ Features of Pumping Station Facilities
4.45pm – 5.30pm	<ul style="list-style-type: none">▪ Group Discussion