



PROCESS OPTIMIZATION AND ENERGY CONSERVATION

INTRODUCTION

This course provides an overview of processes, systems and methodologies in optimizing processes specific to Sewage Treatment Plants. Two components of the optimization process are introduced: Operations Management and Troubleshooting procedures.

COURSE OBJECTIVES

This course builds on existing knowledge of operators in managing and optimizing the processes of Sewage Treatment Plants.

COURSE CONTENT

- Main Parameters of Operation Management
 - Hydraulic Retention Time
 - BOD-SS Loading
 - Solids Retention Time
 - Excess sludge generation
 - Polymer dosing rate
 - Air Flow (Oxygen Supply) Volume
 - Treatment Condition (Nitrification /Denitrification)
 - Water Quality
 - Biota
- Equipment Management
- Measuring Items for Process Control
- Inspection and Maintenance of Measurement Facility
- Water Quality Management
- Key Points in Process Control



LEARNING OUTCOMES

On completion of this course, participants will be able to:

- Understand processes to optimize operations
- Understand troubleshooting techniques related to operations process control

DURATION

1 day

METHODOLOGY AND ASSESSMENT

Course will be conducted through classroom lecture and hands-on practical.

WHO SHOULD ATTEND

All personnel involved in control and troubleshooting of sewage treatment process namely supervisors, team leaders, technicians, and operators.

COURSE FEE

RM550.00