

TREATMENT PLANT OPERATOR COURSE (TPOC) BASIC (6 DAYS)

INTRODUCTION

The Treatment Plant Operator Course (TPOC) – BASIC program implemented by IWK focuses on the proper operation and maintenance of sewage treatment plants is vital to ensure the desired effluent quality is achieved and nuisance to public is minimized. In addition, a well planned and executed maintenance protects and extends amount life and maintains equipment efficiency and effectiveness. This in turn helps in optimizing cost of operations.

COURSE OBJECTIVES

- Develop knowledgeable operations personnel on basic sewage chemistry and sewage treatment fundamentals. Develop skills to ensure STPs are in compliance, reporting internally and to regulators.
- Develop skills on basic STP operations and maintenance requirements

COURSE CONTENTS

- Introduction to Sewage Treatment
 - Introduction to sewage characteristics and need for treatment
 - Fundamental process in sewage treatment
 - Types of sewage treatment
- Operation & Maintenance of Preliminary and Primary Treatment
 - Screen
 - Grit & Grease
 - Primary Sedimentation
- Operation & Maintenance of Secondary Treatment
 - Oxidation Pond
 - Aerated Lagoon
 - Fixed Growth Systems
 - Suspended Growth Systems
 - Clarifier Systems
 - Disinfection
- Health & Safety
- Half Day Practical at STP

LEARNING OUTCOMES

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

- Understand the importance of operation & maintenance of sewage treatment.
- Understand the basic processes in sewage treatment.
- Identify types of sewage treatment systems.
- Understand the operation and performance for treatment systems.
- Know the required maintenance of treatment systems.
- Identify the common issue/problem encountered in the treatment systems.
- Understand the types and sources of sludge.
- Understand and gain knowledge on sludge treatment and disposal.

DURATION

6 days

Course will be conducted through classroom lecture and discussion.

METHODOLOGY

WHO SHOULD ATTEND

This course is recommended for sewage treatment personnel who are involved in the operation and maintenance of STP namely supervisors, technicians, team leaders and operators.

ASSESSMENT

Written assessment will be conducted at the end of the training session.

COURSE FEE

RM2, 400.00 per pax