

INTRODUCTION

Analysis and monitoring of the raw sewage and effluent is a vital step in evaluating the treatment process performance. The first step in analyzing the raw sewage and effluent is obtaining a proper and reliable sample for analysis. Thus it is deemed important that samplers are equipped with the knowledge to conduct a proper sampling of wastewater.

COURSE OBJECTIVES

This course provides knowledge and skills to enable personnel involved in sampling of raw sewage and effluent to conduct proper sewage sampling. Participants will be introduced to various types of sampling, proper sampling apparatus, sampling methods, sample preservation, the proper way of labelling and problems encountered while performing sampling works.

COURSE CONTENTS

Types of sampling.

- Sampling purpose.
- Sampling apparatus.
- Types of wastewater samples.
- Labelling of samples.
- Preservation of samples.
- Sampling point.
- Transportation of samples.
- Sampling methods
 - Final effluent (FE) sampling
 - Crude sewage (CS) sampling
 - Communal septic tank sampling
 - Mixed liquor
- Sampling precautions.
- Sampling problems.
- Sampler responsibility.
- Health and safety aspect of conducting sampling.



LEARNING OUTCOMES

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

- Determine the right location and point to collect samples.
- Follow the proper procedures of collecting samples.
- Properly label the samples.
- Understand the preservation methods required for different type of samples.
- Understand the problems that may be encountered during sampling and how to overcome it.

DURATION

1 Day.

COURSE FEE

RM550.00 per person

WHO SHOULD ATTEND

All personnel involved in sampling work namely samplers and supervisors are encouraged to attend for knowledge purpose.

COURSE SCHEDULE

8:30am– 9:00 am	Registration
9.00am – 10.30 am	- Introduction to sampling - Types of wastewater samples
10.30am – 10.45 am	Coffee/Tea break
10.45am – 1.00 pm	- Labelling of samples - Sampling point.
1.00pm – 2.00 pm	Lunch break
2.0 m – 3.30 pm	- Sampling methods - Issues in sampling
3.30 pm – 3.45 pm	Coffee/Tea break
3.45m – 5.00 pm	- Health and safety aspect in carrying out sampling - Demonstration of sampling - Assessment