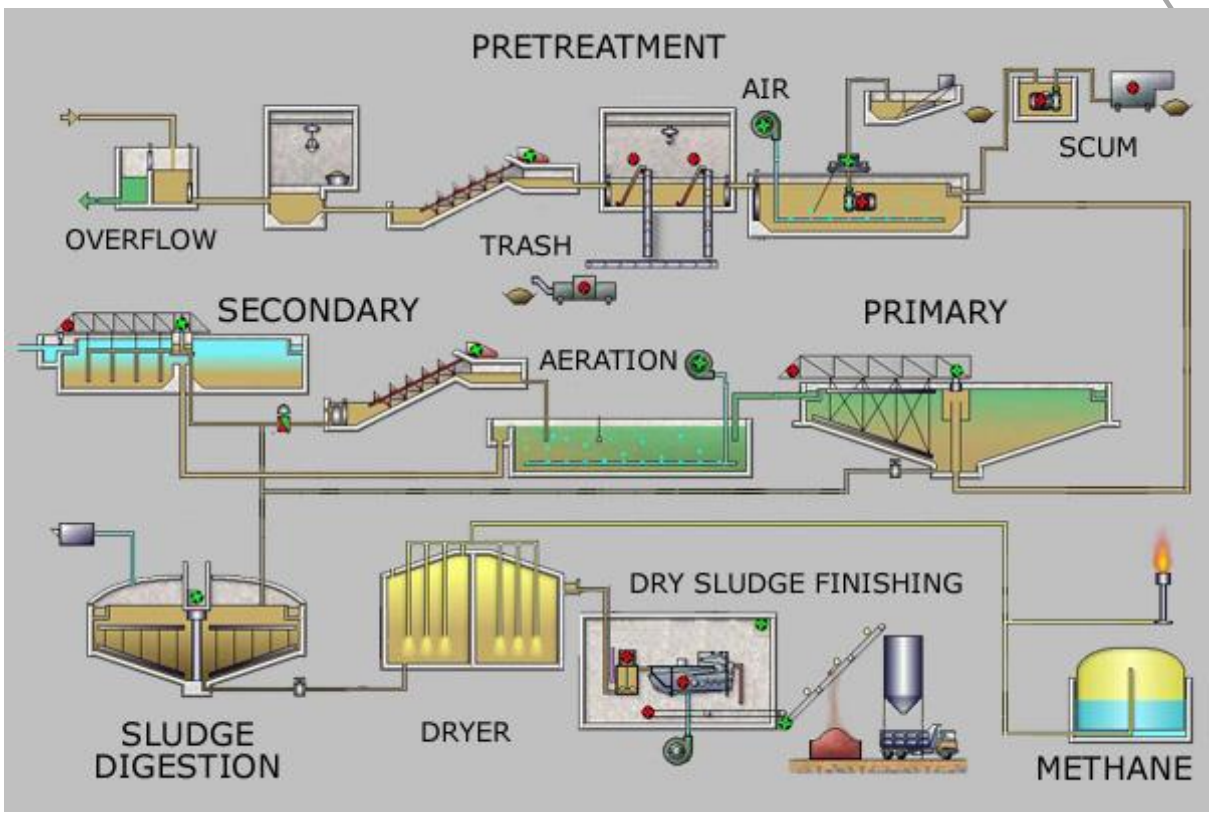
Asia Masters Center

Process, Theory, and Maintenance of Sewage & Effluent Treatment Technology Operation



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Financial analysis Modelling &forecasting

Course Objective

- Understand the different waste water treatment systems available
- Understand National and local legislation
- Maintain and troubleshoot waste water treatment systems

Target Audience

- Municipal Planner
- Sewerage Operators
- Municipal Engineers
- Consulting Engineers
- Mechanical Engineers and Technicians

Course Outline

Day 1

Introduction

- Planning considerations -provincial and national government
- Economic, social and environmental goals of planning
- Environmental assessment
- Need for health and safety
- Factors in preparing municipal plans

- Protection for stepped up demand
- Waste water fundamentals
- Basic terminology
- Contaminant considerations
- Biological, phosphorous, ammonia
- Pathogens

Day 2

- Effluent objectives
- Alternate discharge options
- Receiving water capacity-provincial water quality objectives
- Surface discharge
- Subsurface discharge
- Design considerations
- Collection of sewerage
- Aerobic and anaerobic treatments
- Critical design parameters for communal sewerage treatment systems
- Treatment technologies
- Suspended solids removal
- Bod removal
- Nitrification and denitrification
- Phosphorous reduction
- Treatment systems

Day 3

- Conventional septic tank as the treatment system
- Enhanced septic tanks as a primary for other bioreactors
- Bioreactors

- Fixed film
- Rotating
- Suspended
- Batch
- Filters-sand, peat, stone, synthetics
- New technologies targeting specific contaminants
- Recirculating sand filters year round treatment
- History experimental design
- Construction
- Operation
- Subsurface discharge
- Filter bed

Day 4

- Shallow trench
- Leaching bed
- "constructed wetland"
- Recycle, reuse
- Direct discharge
- Stream assimilative capacity
- Mixing zone
- Disinfection
- Biosolids disposal
- Hauled waste
- Compost
- Lime stabilization
- Management of communal waste water systems

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Day 5

- Financial and legal issues
- Funding sources
- Approval process
- Regulatory compliance
- Municipal and owner liability
- Design and installation of your own system
- Simple design rules
- Implementation of your system
- Tips and tricks
- The thirteen golden rules of working with waste water systems
- Regular monitoring
- Long term satisfactory performance

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The Cost Of The Training Program Includes The Following:

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Price (USD)
Communicate with the training department to know the participation fees ➢ **There are offers and discounts for groups**
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