

COURSE DESCRIPTION

Blockages in sewer pipes are caused by the indiscriminate disposal of objects such as rags, solid waste, garbage or other materials into the sewer system. Such blockages obstruct sewerage flow and caused manholes to overflow, resulting in undue inconvenience and posing public health risks to all concerned as well as polluting the environment. Sewer blockage can often be removed by power rodding or jetting the sewer line. Proper sewer maintenance will keep sewer system to function efficiently.

COURSE OBJECTIVES

This course is designed to provide basic understanding on sewer system and sewer maintenance, types of sewer maintenance and the tools and equipment used for sewer maintenance. This course will focus on blockage clearance using rodding machines with lots of emphasis on the health and safety aspects.

COURSE CONTENT

- Introduction to sewer systems.
- Sewage conveyance system.
- Sewer component
 - Sewer pipes and connections
 - Manholes
 - Lift stations
 - Valve
- Sewer service failure and problems, causes and effects
 - Blockage
 - Poor structural condition of sewer pipes
 - Reduced hydraulic capacity
- Sewer maintenance tools
 - Basic tools
 - Rodding tools – rods and rodding machines namely the Ridgid Kollman and Sreco.
- Corrective maintenance
 - Public blockage clearance using rodding machine
 - Private blockage clearance using manual rods
 - Manhole and sewer collapse
 - Replacement of manhole cover
- Preventive maintenance
 - Manhole inspection
 - Sewer cleaning – flushing
- Rodding machine maintenance
- Safety aspects
 - Work area safety
 - Personal safety
 - Machine safety
 - Hazardous aspects of sewer maintenance works



LEARNING OUTCOMES

- Upon completion of this course, participants will be able to:
- Understand sewage collection system
 - Differentiate between private and public sewer system
 - Explain about sewage conveyance system
 - Identify sewer components and its function
 - Identify sewer problems, its causes and effects
 - Know what action to be taken to rectify sewer problems
 - Recognize poor structural condition of sewer pipes
 - Recognize the proper tools and equipment to use for maintenance job
 - Perform manual and mechanical rodding in a correct and safe manner
 - Perform step-by-step work procedure for public blockage clearance

DURATION

2 Days.

COURSE FEE

RM800.00 per person

WHO SHOULD ATTEND

This course is designed for sewer network services personnel who are involved in sewer maintenance work, namely supervisors, technicians and operators.

METHODOLOGY

Classroom lecture and hands-on practical.

ASSESSMENT

Written assessment.