

ARUSHA TECHNICAL COLLEGE

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CIVIL ENGINEERING DEPARTMENT

1.0 SHORT COURSE TITLE: Water quality and treatment

2.0 HOST DEPARTMENT: Civil Engineering Department

3.0 VENUE/PLACE: Arusha Technical College (ATC)

4.0 DURATION: One (1) week

5.0 COURSE COST: TZS 600,000/= (tuition fee and training materials only)

6.0 COURSE OBJECTIVES

6.1 General Objectives

This course focuses to increase a general understanding on water quality and treatment including water quality parameters and sampling methods, laboratory methods of water analysis, standards, data interpretation and recording, safety, environmental protection, and water treatment.

6.2 Specific Objectives

At the end of the course, a trainee should be able to:

- (i) Apply methods of laboratory water quality analysis.
- (ii) Interpret and record data of water quality analysis.
- (iii) Apply standards of water quality analysis.
- (iv) Treat water
- (v) Protect the environment

7.0 COURSE OUTCOME

Upon the completion of course, the trainee should be able to:

- (i) Understand the meaning and advantages of water quality, environmental issues and safety.
- (ii) Understand water quality parameters and how analyze them, methods used and instrument or apparatus used.
- (iii) Understand how to report data from sampling in laboratory analysis.
- (iv) Understand why we treat water and how to treat it.

9.0 TARGET GROUPS

The target groups include water quality laboratory technicians, laboratory technicians, laboratory supervisors and laboratory managers.