

THE UNITED REPUBLIC OF TANZANIA

MINISTRY OF WATER

WATER INSTITUTE



Our Ref: WI/E.80/6/30

Date 24.04. 2019

To

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P. O. Box

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Re: SHORT COURSE TRAINING ANNOUNCEMENT AT WATER INSTITUTE

Reference is made to the above heading.

Water Institute conducts various professional short courses for in-services staff for upgrading their skills and professions.

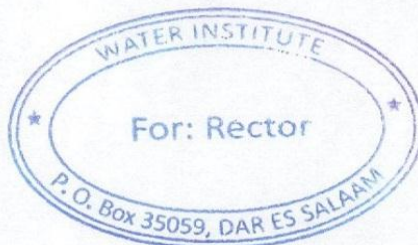
Water Institute will be conducting short course training at competitive fees in different areas of specializations as shown in the time table attached to this letter. The target group for these training are Civil/Mechanical/Water technicians, Civil/Mechanical/Water/Environmental engineers, Hydrologists, Hydro geologists and water well drillers, Water quality specialists as well as Water resources managers.

It is our hope that your staff will be allowed to attend this training on the mentioned dates

Your Sincerely,

Dr. Yona Kimori

For: RECTOR





ANNOUNCEMENT FOR SHORT COURSE TRAINING AT WATER INSTITUTE

Water Institute will be conducting short course training at competitive fees in different areas of specializations as shown in the time table attached to this letter. The target group for these training are Civil/Mechanical/Water technicians, Civil/Mechanical/Water/Environmental engineers, Hydrologists, Hydro geologists and water well drillers, Water quality specialists as well as Water resources managers.

1. Computer Aided Design (Auto CAD) and EPANET software

This training is scheduled to start on 20 May to 31 May 2019

Course contents

- (i) Introduction to AUTOCAD and use of different commands
- (ii) Introduction to Epanet and link between AUTOCAD and Epanet
- (iii) Generation of title block and printing of AUTOCAD drawings
- (iv) Introduction to Epanet
- (v) Epanet hydraulic modeling capabilities
- (vi) Drawing a network map
- (vii) Feeding information/data in network map
- (viii) Retrieving results from Epanet software
- (ix) Exporting network map to AUTOCAD and prepare report
- (x) Transfer of network from AUTOCAD to Epanet workspace
- (xi) Hydraulic modeling using spreadsheet (excel sheet)

The training cost for this course is Tsh 400,000/= per participant

2. Electronic topographic surveying for design of water supply projects

This training is scheduled to start on 20 May to 31 May 2019

Course contents

- (i) GPS Systems and Measurement Techniques
- (ii) Total Station (TS) Instrument

- (iii) Angular Measurements and Distance Measurements
 - (iv) Data downloading and uploading (2D/3D Coordinates)
 - (v) Total Station observation and measurement
 - (vi) Establishment of Control Points with Total Station (TS)
 - (vii) Conducting Topographic Surveying (Theory and Practical)
 - (viii) Staking/ Setting out (theory and practical)
- The training cost for this course is Tsh 400,000/= per participant

3. Pump Mechanics and its Electrical Installations

This training is scheduled to start on 10 June to 14 June 2019

Course contents

- (i) Introduction to pump mechanics
 - (ii) Pump dismantling and assembling
 - (iii) Installation of pumps and safety
 - (iv) Common operation problems for pumps
 - (v) Maintenance requirements for pump units
 - (vi) Pumps maintenance schedule
 - (vii) Installation of electrical and mechanical systems
 - (viii) Electrical water pumping stations operations and controls
 - (ix) Pumping station electrical regulations and guidelines
- The training cost for this course is Tsh 200,000/= per participant

4. Plumbing and Pipe Fittings

This training is scheduled to start on 10 June to 14 June 2019

Course contents

- (i) Pipe Sizing for Cold Water Installation
 - (ii) Water Economy
 - (iii) Pipe Materials
 - (iv) Pipes Joining Techniques
 - (v) Emergency Repair
- The training cost for this course is Tsh 200,000/= per participant

5. Hydrogeology and Water well Drilling

This training is scheduled to start on 3 June to 14 June 2019

Course contents

- (i) Basics of hydrogeology
- (ii) Introduction to drilling of wells
- (iii) Drilling equipment and methods
- (iv) Drilling operations
- (v) Basics of conducting pump test
- (vi) Basics of geophysical survey for groundwater exploration

The training cost for this course is Tsh 300,000/= per participant

6. Geographic Information Systems (GIS)

This training is scheduled to start on 3 June to 7 June 2019

Course contents

- (i) Data capture from satellite images and maps
- (ii) Water database creation and analyses
- (iii) Summary reports generation from water database
- (iv) Hydrological parameters generation from DEM
- (v) Water resources information presentation and visualization through maps and graphs
- (vi) Water quality mapping with GIS
- (vii) Water supply planning with GIS

The cost for this training is Tsh 50,000/= for students and Tsh 200,000/= for non-students

7. Water Quality Analysis

This training is scheduled to start on 3 June to 14 June 2019

Course contents

- (i) Physical, chemical and biological properties of water
- (ii) Procedures for water quality analysis
- (iii) Water sampling procedures
- (iv) Laboratory water analysis for industrial, irrigation and domestic use
- (v) Parameters affecting water quality
- (vi) Equipment used for water quality monitoring
- (vii) Water treatment methods

The training cost for this course is Tsh 680,000/= per participant

All payment must be done through our bank account name; **Water Institute, NMB Bank, Account No; 22501000004.**

Certificates of attendance will be provided for all participants in this training.

For further information regarding registration for the courses please contact the following

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