

## Water Quality Laboratory Services

### a) Chemical/Physical Analysis:

Full Chemical Analysis	4000
PH (pH Scale)	200
Total Hardness (mg/L CaCO <sub>3</sub> )	250
Chloride (mg/L Cl)	300
Color (Hazen)	150
Free Carbon Dioxide (mg/l Co <sub>2</sub> )	200
Dissolved Oxygen (mg/LO <sub>2</sub> )	200
Turbidity (N.T.U)	150
Sulphate (mg/LSO <sub>4</sub> )	350
Calcium, Magnesium, Sodium, Potassium, Iron (mg/L Ca) each	250
Total suspended Solids (mg/L)	350
Total Settleable (mg/L)	200
Fluoride (mg/L F)	300
Nitrates (mg/L No.3)	350
Total Dissolved Solids (mg/L)	200
Jar Test/Chloride Demand Test (Mg/l)	1000

### b) Bacteriological Analysis:

Total and Faecal Coli Forms (No/100ml)	2500
Residual Chlorine (Mg/L)	300
Sterile Bottle	200

### c) Wastewater Analysis:

Partial Wastewater Analysis	3000
PH (pH Scale)	200
Total Alkalinity (mg/L CaCO <sub>3</sub> )	250
Oil & Grease	500
COD (mg O <sub>2</sub> /L)	500
BOD 5 days at (20c) (mg O <sub>2</sub> /l)	1000
Turbidity (N.T.U)	200
Sulphides (mg/L)	350
Total Suspended Solids (mg/L)	350
Total Settleable (mg/L)	200
Nitrates (mg/L No.3)	350



For More Information Contact:

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MINISTRY OF WATER, SANITATION AND IRRIGATION  
**KENYA WATER INSTITUTE**

*Fountain of Water Knowledge*



#### VISION:

A Technical Centre of Excellence in Training, Research, Innovation and Consultancy in the Water, Sanitation and Irrigation sector.

#### MISSION:

To offer competency-based training, research, Consultancy and outreach services in water, sanitation, irrigation and related sectors for sustainable development.



**Kenya Water Institute** is a semi-autonomous Government Agency in the Ministry of Water, Sanitation and Irrigation (MWSI) established by the Kenya Water Institute Act No. 11 of 2001 to promote standards of service in the Water sector through human resource development, research, Outreach and Consultancy. It's fully registered by The Technical and Vocational Education and Training Authority (TVETA) and accredited as a National Qualification Awarding Body (NQAB)

### Courses Offered and Entry Requirements:

#### Diploma Courses – KNQF Level 6 (3 years)

1. Diploma in Water Engineering Technology
2. Diploma in Wastewater and Sanitation Engineering Technology
3. Diploma in Irrigation and Drainage Engineering Technology
4. Diploma in Water Resources Management
5. Diploma in Water Laboratory Technology
6. Diploma in Information Communication Technology (KNEC)

#### Entry Requirements

- KCSE Mean Grade C- (Minus) OR
- Relevant Craft Certificate from KEWI OR
- Equivalent Qualification

Tuition per Semester: **Ksh. 31,300**

#### Certificate Courses – KNQF Level 5 (2 years)

1. Certificate in Water Engineering Technology
2. Certificate in Wastewater and Sanitation Engineering Technology
3. Certificate in Irrigation and Drainage Engineering Technology

4. Certificate in Water Resources Management
5. Certificate in Water Laboratory Technology
6. Certificate in Information Communication Technology (KNEC)

#### Entry Requirements

- KCSE Mean Grade D (Plain) OR
- Relevant Artisan Course from KEWI OR
- Equivalent Qualification

Tuition per Semester: **Ksh. 30,000**

#### Artisan Courses – KNQF Level 4 (1 year)

1. Plumbing and Pipefitting
2. Water and Wastewater Management
3. Water Operator Course
4. Irrigation and Drainage Systems Operation

#### Entry Requirements

- KCSE Certificate OR
- Other Relevant qualification approved by the Academic Board

Tuition per Semester: **Ksh. 30,000**

For further enquiries about our TVET Programmes, please contact the Registrar, Admissions office.

Phone: **0735339206** Email: **admissions@kewi.or.ke**

(Foreign Students to add 20% on all charges.)  
Female students and Persons with disability are encouraged to apply.

### Short Courses

1. Strategic Leadership in Water Management
2. Environmental Impact Assessments and
3. Environmental Audits
4. Climate Change Mitigation and Adaptation in the Water Sector
5. Renewable Energy Technologies for Water Supply
6. Smart Water Metering
7. Irrigation Management
8. Water Utility Credit Worthiness
9. Water Quality Management
10. Customer Care and Public Relations
11. Operation and Maintenance of Water Supply Systems
12. Operation and Maintenance of Sewer Networks
13. Operations and Maintenance of Pumping Stations
14. Occupational Safety and Health (OSH) for Water Utilities and Sanitation Services
15. Catchment Conservation and Conflict Resolution
16. Smart Water Infrastructure and Data Integration
17. Advanced GIS for Water and Environment Professionals
18. Mobile Water Quality Analyst Certification
19. Advanced Non-Revenue Water Management

### Research, Consultancy and Technical Services

1. Hydrogeological Survey
2. Water Quality Laboratory Services
3. Drilling Services
4. Water Resources Management
5. Appropriate Water Technology
6. Environmental Impact Assessment

### Troubleshooting and Repair Services

KEWI undertakes troubleshooting and repair services in the various water related fields including pumps, boreholes and distribution systems.