



## **BASIC PLUMBING PROGRAM**

### **Background**

The building sector in Kenya has out-cried shortage of technicians, with majority of Kenyans grappling for white collar jobs. The water sector has not been left out of this shortage. The industry lacks plumbers who are well trained and certified. Training the youths and other interested persons who faced challenges in educational transition will greatly help them bridge this gap in building and water sector. It is this that necessitated Kenya Water Institute (KEWI) to develop a **Basic Plumbing Program** targeting these youths and other interested persons in all the 47 counties to give them skills and certification needed for various forms of employability in plumbing sector. Plumbers who have been practicing and providing the services without a certificate, will then be trained and assessed thereafter issued with certificates.

The program is designed in three modules, namely

- i. Certification Module (CM)
- ii. Regional Level Evaluation & Assessment Module (RLE&AM)
- iii. Face to Face & Practical Module (FTF&PM)

### **Aim**

The main aim of this program is to enhance the skills of this cadre of Kenyans, majority of who are youth, thereby increasing their bargaining power in the labor market as well as enabling them set up their own plumbing ventures.

### **Target Groups**

Target groups for this program will be all: -

1. Interested individuals with limited education qualification but require life skills occupation career in plumbing,
2. Youth groups in informal/formal settlements,
3. Employees with knowledge and no certification on plumbing works,
4. Casual/contract staff with engagement in the plumbing works,
5. Other trades personnel that may be interested in plumbing trade,
6. Entrepreneurs in plumbing works,
7. Any other that may be proposed by the partner/sponsor organization

### **Program Methodology**

#### **1. Certification Mode (CM)**

Certification of participants practicing with no certificate but can prove to have the plumbing knowledge and skills through evaluation and assessment that will be determined by KEWI academic board

#### **2. Regional Level Evaluation & Assessment Mode (RLE&AM)**

Certification of participants practicing in the plumbing trade but with no certification. This will be organised at regional levels (RLE&AM) to be determined by KEWI in collaboration with National Government, County Governments, Water Agencies, Water Utilities/WSPs, Water Associations, NGOs, Youth Organizations, Financial Institutions, Consultants, Development partners, Building & Construction Industry, Private sector, WASPA and any other interested sponsors (**Through evaluation and assessment of the participants, orally & practically in an appropriate environment**)

#### **3. Face to Face & Practical Mode (FTF&PM)**

The Participants will be beginners in the plumbing field. The program will be conducted in KEWI campuses at Nairobi, Kisumu, Chiakariga and Kitui or at a regional centre that will be determined by KEWI and partner organizer/sponsor.

### **Specific Objectives**

After completion of program, the participants will be able to:

- i. Choose and work on different types of pipes
- ii. Install and maintain Cold and Hot water distribution system
- iii. Install and maintain plumbing fixtures and in-house drainage system
- iv. Install solar water heating system
- v. Install domestic water booster pumps,
- vi. Perform simple soldering and Arc welding,
- vii. Interpret plumbing codes, plumbing drawing and prepare basic bill of quantities

### **Program Modes & Duration**

**1. (CM) Program: - Certification Mode (3days)**

**2. (RLE&AM) Program:**

This program mode will take (10 days) **Two weeks**

**3. (FTF&PM) Program:**

This program mode will take (7hrs/d\*4weeks\*12weeks equal to 336 hours).**12weeks** in formal training environment there after any related form of field attachment or self-engagement on the field of 444 hrs (**Total of 780 hrs**)

### **Course Charges**

- 1. (CM): 3days KES. 7,000.00**
- 2. (RLE&AM):10days KES. 22,500.00**
- 3. (FTF&PM):12 Weeks KES. 45,000.00**