



UNIVERSITY OF MALAWI  
**THE POLYTECHNIC**

***Centre for Water, Sanitation, Health and  
Appropriate Technology Development  
(WASHTED)***

**WE ARE PLEASED TO ANNOUNCE SHORT COURSES  
FOR THE MONTH OF FEBRUARY 2010**

WASHTED is inviting applications for admission into the following short courses aimed at building capacity in water, sanitation and food hygiene.

**1. GROUNDWATER DEVELOPMENT FOR RURAL WATER SUPPLY**

**Target Group:** Middle level managers from NGOs, public and private sector (including District Environmental Health Officers, Environmental Officers, District Water Supply Officers, District Water Managers, Programme Managers, Water and Sanitation Coordinators), Water Monitoring Assistants and prospective candidates for the MSc in Hydrogeology under split-site programme between the University of Strathclyde and University of Malawi – The Polytechnic.

**Course Duration:** 5 days (1<sup>st</sup> – 5<sup>th</sup> February 2010)

**Course Content:**

- Groundwater occurrence in relation to the hydrological cycle
- Borehole siting methods
- Borehole drilling techniques and well completion procedures
- Pumping tests and data analysis
- Pump installation and construction of drainage systems
- Community Based Management (CBM) of water points:
  - Operation and maintenance (VLOM)
  - Fundraising for procurement of spare parts for hand-pumps
  - Hygiene education

- Hand-dug well technology

## **2. ASSESSMENT OF GROUNDWATER QUALITY FOR RURAL WATER SUPPLY**

**Target Group:** Middle level managers (including District Environmental Health Officers, Environmental Officers, District Water Managers, Programme Managers, Water and Sanitation Coordinators, and Water Laboratory Managers)

**Course Duration:** 5 days (8<sup>th</sup> – 12<sup>th</sup> February 2010)

**Course Content:**

- Hydrological cycle
- Relationship between geology and groundwater quality
- Drinking water quality and health
- Water pollutants and their sources
- Water Quality Standards, Regulations and Guidelines
- Procedures for sampling and testing quality of groundwater for physical, chemical and biological parameters
- Monitoring drinking water quality
- Hygiene Education

## **3. DESIGN, OPERATION AND MAINTENANCE OF GRAVITY-FED RURAL PIPED WATER SUPPLY SYSTEMS**

**Target Group:** Middle level managers from NGOs, public and private sector (including District Environmental Health Officers, Environmental Officers, District Water Supply Officers, District Water Managers, Programme Managers, Water and Sanitation Coordinators) and Water Monitoring Assistants

**Course Duration:** 5 days (15<sup>th</sup> – 19<sup>th</sup> February 2010)

**Course Content:**

- Recap of hydraulics of pipe flow
- Identification of water supply sources
- Design of a typical gravity-fed rural piped water scheme (intake, treatment works, storage tanks, pipeline, and public standpipes)
- Operation and maintenance of gravity-fed rural piped water schemes
- Community Based Management (CBM)

#### **4. FOOD HYGIENE AND SAFETY**

**Target Group:** Middle managers and supervisors in food industry (e.g., hotels, lodges, motels, restaurants, and institutions) with at least basic knowledge in food hygiene and safety.

**Course Duration:** 5 days (22<sup>nd</sup> –26<sup>th</sup> February 2010)

**Course Content:**

- An introduction to food hygiene and safety
- Microbiology
- Contamination hazards and controls
- Food poisoning and food-borne diseases
- Personal hygiene
- The storage and temperature control of food
- Food spoilage and preservation
- Cleaning and disinfection
- Pest control
- Supervisory management
  - Standards and food safety policies
  - Quality assurance and quality control
  - Food inspection
  - Audit of food premises
  - Investigation of food poisoning outbreak
  - Hazard Analysis Critical Control point (HACCP)
- Food Safety Legislation
- MGDs and their relationship to food hygiene and safety

**Course Fees**

Each participant will be required to pay MK75, 000.00 per course. The fees will cover costs for refreshments, lunch and course materials. Participants are advised to make their own arrangements for supper and lodging.

For more information, please contact:

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