WEDC Developing knowledge and capacity in water and sanitation

Loughborough University

Title of Capacity Development Workshop:	Selecting a product that works: Applying WHO guidelines in evaluating household water treatment technologies
Contact details	
Name of proposing organization/s	World Health Organization
Practical requirements	
Timing	Half day Monday afternoon
Minimum/ Maximum number of participants	25-35
Facilities preferred	Layout: cabaret-style, with five people per table, and seats arranged in U-shape at each table Equipment: projector and screen at, flipchart paper and pen at each table
Staff details	
Names, qualifications and brief description of experience of staff delivering the workshop.	**Batsirai Majuru, WHO** Batsi is a Technical Officer in the Water, Sanitation, Hygiene and Health unit at WHO. Her work is centred on the management of the day-to-day operations of the HWT Evaluation Scheme, and coordinating activities related to WHO's work on drinking-water regulation. Batsi has a PhD on water policy and public health. Her current role includes the development and delivery of capacity building initiatives related to management of drinking-water safety, including technical support and training. **Nikki Beetsch, WHO/NSF International** Nikki is seconded from NSF International to support the development of the HWT Evaluation Scheme. With NSF International, Nikki has overseen the microbiological purifier testing and certification programs and managed the development of multiple NSF certification protocols for public health. Nikki holds a MSc in Environmental Science/Biology.
Course details	

Aims:	The World Health Organization (WHO) Guidelines for Drinking-water Quality (GDWQ), set out a Framework for Safe Drinking-water which emphasizes a preventive, risk-based approach to managing water quality. However, there is limited understanding of how this risk-based approach can be practically applied, including in performance evaluation of household water treatment (HWT) and safe storage products. This half-day workshop will introduce participants to the WHO Framework for Safe Drinking-water, key concepts in risk-based approaches to managing water quality, and how these are applied in evaluating and selecting HWT products.
Intended audience	The workshop is intended for manufacturers and implementers of HWT, as well as staff from regulatory, standards and laboratory agencies responsible for certifying or evaluating HWT products. Participants should ideally have some existing knowledge of water microbiology at degree level, and / or have experience in HWT implementation, or product manufacture.
Intended Learning Outcomes/Objectives	Participants will have *increased knowledge and understanding* of: • Key concepts in the WHO Guidelines for Drinking-water Quality, including the Framework for Safe Drinking-water; • Risk management principles in water safety and their application in HWT and safe storage; and • Application of these principles in evaluating the microbial performance of HWT products, under the WHO International Scheme to Evaluate HWT Technologies (the Scheme), including key considerations in manufacturing quality and impact on performance Participants will also *gain skills* in • Interpreting testing results from the Scheme • Applying the results in product certification (for standards / regulatory authorities), or selection in implementation

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Format and Content of Workshop	The workshop will include three brief 'pillar' lectures on WHO Framework for Safe Drinking-water, risk-based approaches to managing water safety, and the WHO Scheme. Each of the 'pillar' lectures will include a short quiz, and a facilitated question and answer session. The workshop will include opportunities for problem-solving, through short case study for participants to work through, as well as practical exercises for groups. The session outline is shown below *14:00 - 14:05* *Welcome, overview and objectives* 14:05 - 14:10 Warm up exercise 14:10 - 14:25 An overview of the WHO Framework for Safe Drinking-water and key principles in risk-based approaches to water safety *14:25 - 14:35* *Q&A* 14:35 - 14:45 An example of the application the risk-based principles in HWTS, with an introduction to the WHO HWT Evaluation Scheme *14:45 - 14:55* *Q&A* 14:55 - 15:10 Presentation: An overview of results from Round II of the Scheme 15:10 - 15:20 Group exercise: Reviewing results from the Scheme *15:30 - 16:00* *Break* 16:00 - 16:20 Case study: applying results from the Scheme in product selection 16:20 - 16:35 Feedback from group work 16:45 - 16:55 Workshop evaluation *16:55 - 17:00* *Wrap up and close* *Note:* Each session will build on preceding sessions, so participants would need to be committed to attending all
Materials to be circulated in advance or after the workshop.	WHO Guidelines for Drinking-water Quality WHO HWT Scheme Round II report WHO M&E Toolkit for HWTS
Means of assessment and feedback to students:	Potential registrants will be asked to fill in a pre-workshop assessment form aimed at determining their background; assessing extent of existing knowledge on the topic; and gauging if they can meet learning outcomes
Mechanism and means of course evaluation	Throughout the workshop, time will be allocated for question and answer sessions, quizzes, and practical exercises for groups / individuals. At the conclusion of the workshop, participants will be asked to fill out a workshop evaluation form aimed at assessing the quality of the workshop and how it can be improved.