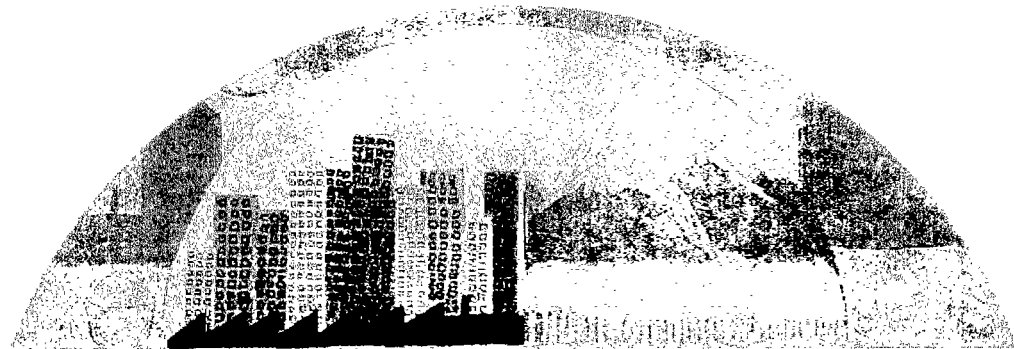




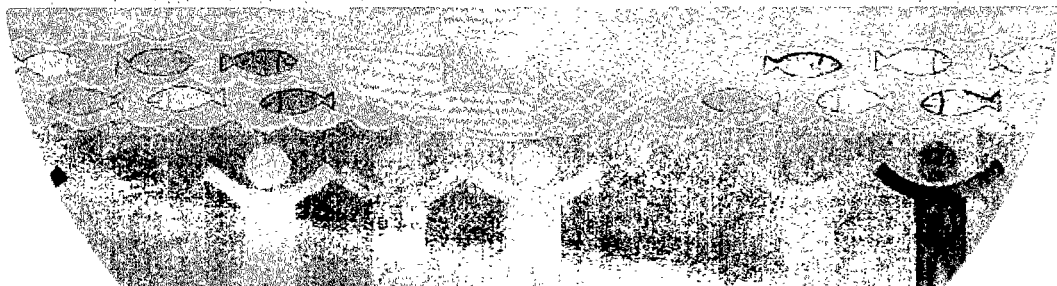
World Health Organization
Sustainable Development and
Healthy Environments

WHO Guidelines for Drinking Water Quality Training Pack



Protection of the Human Environment
Water, Sanitation and Health Series

Geneva, 2000



Preface

Between 1993 and 1997, the World Health Organization (WHO) published the second edition of *Guidelines for Drinking-Water Quality* in three volumes: Volume 1: Recommendations (1993); Volume 2: Health Criteria and Other Supporting Information (1996); and Volume 3: Surveillance and Control of Community Supplies (1997). As with the first edition of the Guidelines, their development was organised and carried out jointly by WHO headquarters and the WHO Regional Office for Europe.

This pack is intended to provide information for use in the planning and delivery of seminars, workshops and training courses in water quality surveillance, control and improvement, especially where these concern the WHO *Guidelines for Drinking-Water Quality*. The pack contains 23 different sessions, including both presentation and practical exercises.

It is hoped that the availability of this pack will encourage and assist local, national and regional authorities to implement events of this type with or without the assistance of expert institutions or individuals. It is hoped that the pack will facilitate the development of expertise and thereby promote the organisation of further events.

The pack is designed to cover a broad range of water-related topics in order that appropriate elements can be selected in response to local circumstances and priorities. The pack includes sessions addressing the scientific basis of the Guidelines; the establishment of national standards; the ways in which water supplies may be improved; and some broader issues such as human resource development.

Each section of the pack addresses a single session and includes the objectives, a session plan, a background paper and overhead transparencies. The materials are intended to provide a resource person with information to assist in the review of what they might reasonably expect to achieve in a session, and to plan the structure and layout of the session. The background papers can, where appropriate, be provided to participants. The pack also addresses practical sessions. The materials provided to support these give guidance as to how such sessions could be delivered and the materials required to implement them.

It is unlikely that all sessions would be necessary for a single seminar, workshop or training course. It is therefore important that the overall objectives of an event are defined, taking local priorities into account when selecting which sessions will be of most practical use.

The sessions in the pack can be divided into a number of groups which could be of value when planning its use, defining the target audience and selecting sessions. The groups are described in the table over leaf.

In order to develop a well-balanced seminar, workshop or training course, at least one session would normally be required from each group. Discussion of drinking-water quality and the use of the *Guidelines for Drinking-Water Quality* should, for example, generally be accompanied by sessions considering monitoring and assessment and the means to secure improvements; and, possibly, a practical session illustrating issues of particular local relevance.



Group	Session Title
1	Introduction Water and public health; The WHO <i>Guidelines for Drinking-Water Quality</i> .
2	The Guidelines Microbiological aspects; Disinfectants and disinfection by-products; Inorganic and aesthetic parameters; Organic chemicals; Pesticides in drinking-water
3	Monitoring and assessment Monitoring and assessment of microbiological activity; Monitoring and assessment of chemical quality; <i>Guidelines for Drinking-Water Quality</i> Volume 3.
4	Technical aspects Source protection; Drinking-water treatment; Disinfection; Water treatment chemicals and construction materials.
5	Organisational aspects Institutional frameworks; Legislative frameworks; Establishing national drinking-water standards; Human resources; Cost recovery.
6	Practical exercises Microbiology; Disinfection; Sanitary inspection; Planning.

It is hoped that this pack will be a useful addition for those implementing training courses in water quality. The pack should assist in building capacities to provide and facilitate initial, further and ongoing training for staff of diverse disciplines. Any comments that users of the pack may have on experience with its use and which might assist in its further development would be gratefully received and should be addressed to:

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