

Operation and Maintenance of Water Supply Schemes

LENGTH: 3 days

WORKSHOP DESCRIPTION

Upon completion of this workshop, participants will understand core knowledge, skills, and behaviors related to sustainable operation and maintenance of rural water supply schemes, in particular gravity-fed systems in the context of Nepal. Participants will explore a range of factors that influence successful operation and maintenance, practice planning and problem solving, and engage in practical skills development. This workshop has been designed to address common issues of performance, efficiency, and sustainability of rural water supply services, and incorporates technical and managerial sessions to support and provide guidance for local authorities.

PARTICIPANTS

Participants may be individuals or groups who are:

- Local authorities or government officials
- Members of a Water User Committee
- Staff of organizations constructing or implementing water supply schemes
- Staff of water supply schemes
- Motivated and interested community members

It is an advantage if participants:

- Have participated in another ENPHO or CAWST workshop, for example, household water treatment and safe storage, sanitation or community WASH promotion.

Participation by women is encouraged. If participants are from an organization or group, we recommend that 2-5 people from each organization attend to ensure they learn together and benefit the most from the workshop.

METHODS OF INSTRUCTION

Throughout the workshop, active and participatory learning is encouraged through the practical use of ENPHO and CAWST training materials. The participatory workshop includes theory, practical components, participatory activities, and varied discussion types to share experiences. There will be opportunities for participants to practice skills related to the operation, maintenance, and management of water supply schemes. Active participation in all activities is required.

CONTENT

The following is a list of the topics to be covered in the 3-day workshop.

- Introduction to water supply schemes
- Introduction to operation and maintenance
- Operating water supply schemes
- Maintaining water supply schemes
- Achieving operation and maintenance objectives
- Practical sessions on O&M skills
- Sustainability planning
- Link to WASH

OUTCOMES

Upon completion of the workshop, participants will be able to:

- Describe what is meant by “operation”
- Describe what is meant by “maintenance”
- Explain the importance of operation and maintenance in water supply schemes
- Describe factors which affect the operation of water supply schemes
- List activities required to operate water supply schemes
- Plan for challenges related to the operation of water supply schemes
- Analyze different operation and maintenance tasks and how to pay for them
- List common objectives for operation and maintenance
- Prioritize different operation and maintenance objectives
- Create strategies for achieving priority objectives
- Explain sustainability
- Describe ways to make water supply schemes more sustainable
- Conduct a SWOT analysis of their water supply scheme
- Identify priority management areas for improvement

TRAINING MATERIALS

The following materials will be provided:

- Participant materials for the workshop needs
- Digital copies of all material presented in the workshop and related resources