

Participatory WASH Trainings



Training to suit your needs

CAWST, the Centre for Affordable Water and Sanitation has combined the technical skills and experience of our WASH Experts and our Instructional Designers to Offer you a suite of high-quality training workshops.

The courses described in this catalogues are fully customizable to meet the needs of your organization so, you can achieve greater impact. We work with you to ensure the training workshops you select are the ideal tools to complement your capacity development professional development strategy.

Preface

S M Sehgal Foundation has been working on promoting safe drinking water since 2000. The foundation team has over 15 years of experience in implementing household water treatment projects and has a dedicated team of experts on WASH and HWTS.

Water is the elixir of life.

According to a UNICEF report, 2022, less than 50% of India's population have access to safely managed drinking water. Lack of safe drinking water, toilets and hygiene, particularly hand hygiene (WASH), make a strong case for capacity building on WASH.

Unsafe drinking water is one of the leading causes of water-borne diseases. WASH implementers across government, grassroots organizations, and others if equipped with appropriate knowledge and skills on simple and affordable household water treatment technologies can facilitate safe water availability, especially in areas with poor water quality and not having a piped supply. Supporting households with knowledge to improve water quality through household water treatment has the potential to increase safe water coverage and lead to WASH behavior change.

S M Sehgal Foundation and CAWST (Centre for Affordable Water and Sanitation Technology), Canada, have joined hands to offer a diverse set of high quality training workshops/courses (both online and in-person) around WASH and drinking water quality testing.

The training workshops and courses shared in this brochure are fully customizable to meet the needs of your organization and the communities you serve. The trainings can also be delivered in Hindi.

It is our sincere endeavour that the training workshops you select provide you tools for effective WASH interventions and further your impact.



Contents

Training: In-Person



- Household Water Treatment and Safe Storage (HWTS)
- Community WASH Promoter (CWP)
- Introduction to Drinking Water Quality Testing (DWQT)
- Biosand Filter (BSF)
- Rainwater Harvesting (RWH)
- Delivering effective WASH Training (DEWT)
- Ceramic Pot Filter (CPF)
- WASH in School
- Fluoride and Fluorosis Mitigation
- Intermittent Slow Sand Filter for Institute/School

Training: Online



- Introduction to Household Water Treatment and Safe Storage (HWTS)
- Introduction to Drinking Water Quality Testing (DWQT)



Training: In-Person

2 to 3 Days

Household Water Treatment and Safe Storage (HWTS)

Audience:

Program Managers, Community WASH Promoters, Government Officials, Community Leaders

Value:

Learn how to select appropriate household water treatment and safe storage (HWTS) solutions. Increase the likelihood of sustained impact by selecting technologies and approaches that meet the needs and preferences of your target users

Topics:

- Safe Drinking Water
- HWTS: What and When?
- Global Agenda for Safe Drinking Water
- Risks to Water Safety
- Drinking Water Quality
- Multi-Barrier Approach
- Sedimentation Options
- Filtration Options
- Disinfection Options
- Safe Storage & Handling
- Selecting HWTS Options
- Behaviour Change
- HWTS Implementation
- Water Quality Parameters
- Water Safety Planning &
- Chlorine Dosing
- Membrane Filters

Learning Outcomes:

You will be able to select HWTS options for your context





3 Days

Training: In-Person

Community WASH Promoter (CWP)

Audience:

Community WASH Promoters, Community Leaders, Program Managers, WASH Technicians

Value:

Learn critical thinking skills and effective techniques to influence households to overcome barriers and adopt healthy WASH behaviours

Topics:

- What is WASH?
- Why WASH Matters
- Benefits of WASH
- Factors that Influence Behaviour
- Role of a Community WASH Promoter
- How Water gets Contaminated
- Multi-Barrier Approach
- Water Treatment Technologies in practice
- Safe Water Storage and Handling
- Sanitation Ladder
- Correct use and Maintenance of Latrines
- Building a Basic Latrine
- Hand Hygiene
- Food Hygiene
- Insects and Animals
- Solid Waste Management
- Menstrual Hygiene
- Gender and WASH
- Principles of a Household Visit
- The WASH Detective
- Influencing Behaviour Change
- Forms and Commitments
- Role Playing Household Visits
- Action Planning

Learning Outcomes:

You will be able to motivate community members to adopt healthy WASH behaviours





Training: In-Person

3 Days

Introduction to Drinking Water Quality Testing (DWQT)

Audience:

WASH Technicians, Program Managers

Value:

Ensure that water treatment technologies are working effectively by learning to test water for contaminants using portable test kits

Topics:

- Contaminants of Concern
- Safe Water, Contaminants, WHO Guidelines & Standards
- Introduction to Drinking Water Quality Testing
- Intro to Microbiological Parameters
- Water Sampling Procedures
- Intro to Microbial Testing
- Resuscitation & Incubation
- Safe Disposal of Microbial Waste
- Colony Counting
- Quality Control
- Physical Testing
- Chemical Parameters
- Dilutions/Concentration and Conversions
- Chemical Testing Practices
- Equipment Calibration & Demonstration
- Lab Report Analysis
- Interpreting Chemical

Learning Outcomes:

You will be able to use portable water testing kits for contaminants in drinking water





3 to 5 Days

Training: In-Person

Biosand Filter (BSF)

Audience:

WASH Technicians, Program Managers, Community WASH Promoters

Value:

Learn to construct and install a biosand filter correctly, share experiences, and discuss challenges and opportunities to achieving sustainable implementation

Topics:

- Global and Local WASH issues
- Water Cycle and Contamination
- Introduction to Biosand Filter
- Find and process the Sand and Gravel
- Pathogens and Waterborne Diseases
- Transmission of Waterborne Diseases
- Multi Barrier Approach
- Household Water Treatment Options
- How the BSF Works
- Safe Water Storage
- Troubleshooting Installation
- Troubleshooting Operation and Maintenance
- Hands-on:
 - Casting the filter cell (Optional)
 - Processing the sand and gravel
 - Installation of filter
 - Filter monitoring
- Follow-Up Visits

Behaviour Change (Optional)

Learning Outcomes:

You will be able to correctly construct and install a biosand filter, and discuss essential considerations for successful implementation of biosand filter projects





2 to 3 Days

Training: In-Person

Rainwater Harvesting (RWH)

Audience:

WASH Technicians, Program Managers, Community WASH Promoters

Value:

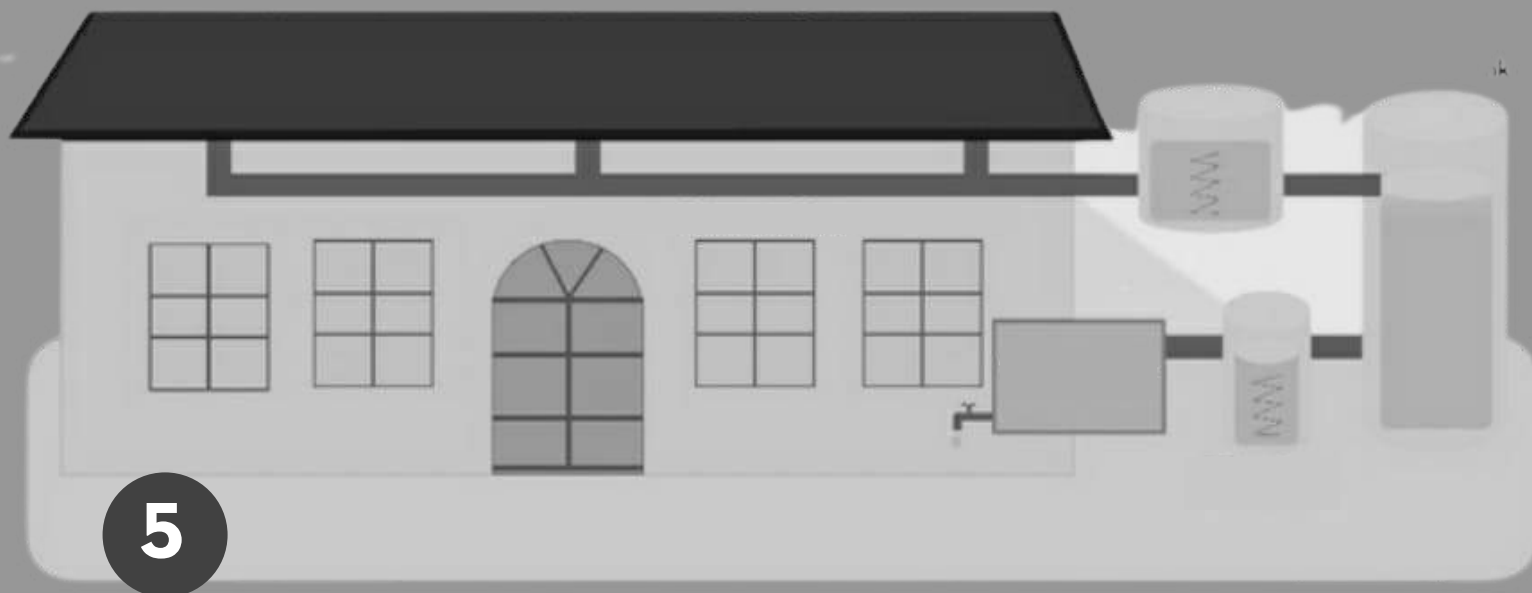
Learn to construct rainwater harvesting systems for households.

Topics:

- Need for Rainwater Harvesting
- Resource estimation
- Methods of rainwater harvesting
- Harvesting, recharge, conservation
- Rainwater harvesting from rooftops and open spaces
- Resource - water quality and effects (health, land, water source etc.)
- Details of Rainwater harvesting roof tops and open spaces
- Components
- Groundwater recharge
- Storage for drinking or other domestic use
- Rainwater harvesting in small farms / agricultural fields
- Conservation and artificial recharge
- Groundwater recharge - open space, dug wells, tube wells, trenches, farm ponds etc.

Learning Outcomes:

You will be able to design and implement rainwater harvesting systems.





Training: In-Person

3 to 5 Days

Delivering effective WASH Training (DEWT)

Audience:

Trainers, Program managers, Community WASH Promoters, Community Leaders

Value:

Learn to deliver engaging/participative training sessions

Topics:

- Learners Needs
- Active Learning
- Theory of adult learning principals
- Creating effective learning
- Learning environment
- Reflective practices
- Lesson Planning and adapting lessons
- Effective questioning
- Giving clear instructions
- Presentation skills
- Trainer identity

Learning Outcomes:

You will be able to use education theory to deliver engaging sessions in WASH





Training: In-Person

7 to 10 Days

(in two spells of 3-5 days)

Ceramic Pot Filter (CPF)

Audience:

Trainers, Program managers, Community WASH Promoters, Potters, Community Leaders

Value:

Learn the production technology of ceramic pot filter, production process details, and discuss challenges and opportunities

Topics:

- Water Quality Aspect
 - Water Cycle and Contamination
 - Pathogens and Waterborne Diseases
 - Transmission of Waterborne Diseases
 - Multi Barrier Approach
 - Household Water Treatment
 - Safe Water Storage
- Introduction to ceramic pot Filter: How a Ceramic Filter Works
- Introduction: Raw material (Clay, Saw dust, Sand, Water)
- Processing raw materials
- Preparing filter mixture, molding process, finishing
- Drying
- Kiln: introduction, stacking & firing, and achieving target heat
- Quality control: conducting quality check tests
- Silver application
- Receptacle selection and fittings
- User education
- Follow-Up Visits
- Business model and marketing
- Behavior Change (Optional)

Learning Outcomes:

You will be able to correctly construct and install a ceramic pot filter, and be able to guide the user discuss essential considerations for successful implementation of ceramic pot filter projects.



Training: In-Person/Virtual

WASH in School

In Person: 3 days
Virtual: 14 weeks
(Weekly 1 hour session)

Audience:

Trainers, Program managers, Community WASH Promoters, Community Leaders

Value:

Learn to sensitize and build the knowledge about the importance of WASH facilities and their correct usage to ensure the sustainability of WASH facilities in the school

Safe Drinking Water

- Water Contamination
- Consumption of Safe Drinking Water
- Transmission of Diseases
- Water Conservation
- Rain Water Harvesting

Hygiene

- Hand Hygiene
- Importance of Handwashing Station
- Menstrual Hygiene Management
- Food and Kitchen Hygiene

Sanitation

- Why Toilet
- Use of Toilet
- Happy Toilet
- Solid Waste Management

Learning Outcomes:

You will be able to motivate school staff/children/CBOS to adopt healthy WASH behaviour and sustained WASH facilities in School.





Training: In-Person

1 to 2 days

Fluoride and Fluorosis Mitigation

Audience:

Trainers, Program managers, Community WASH Promoters, Community Leaders, Medical officers, Health promoters, ASHA and ANM

Value:

Learn to sensitize and build the knowledge about the prevalence and ingestion of fluoride cause of fluorosis and its management, mitigation and prevention.

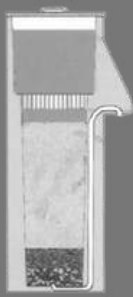
Topics:

- Fluoride Prevalence
 - Sources of fluoride (Geogenic and Anthropogenic)
 - Fluoride Benchmarking and testing
 - Ingestion of fluoride
- Fluorosis introduction
 - Types of fluorosis (Dental, Skeletal and Non-skeletal)
 - Diagnosis
- Fluorosis Management, Mitigation and Prevention

Learning Outcomes:

You will be able to sensitize the communities on link between fluoride and fluorosis; and motivate people living in fluoride and fluorosis prevalence area to adopt fluoride safe water and appropriate nutritional behaviour for fluorosis management and prevention strategies.





Training: In-Person

3 to 5 days

Intermittent Slow Sand Filter for Institute/School

Audience:

Trainers, Program managers, Community WASH Promoters, Community Leaders, School staff

Value:

Learn to construct the intermittent slow sand filter and install correctly, share experiences, and discuss challenges and opportunities for achieving sustainable implementation.

Topics:

- Global and Local WASH issues
- Water Cycle and Contamination
- Pathogens and Waterborne Diseases
- Transmission of Waterborne Diseases
- Multi Barrier Approach of water treatment
- How the Slow Sand Filter Works
- Safe Water Storage
- Troubleshooting Installation
- Troubleshooting Operation and Maintenance
- Follow-Up Visits and monitoring

Learning Outcomes:

You will be able to

- construct, install and commission the intermittent slow sand filter
- motivate school staff/children to adopt safe and clean drinking water in Schools





Training: Online

4 to 6 Weeks

(self paced virtual learning 1-2 hours of learning per week)

Introduction to Household Water treatment and Safe Storage (HWTS)

Audience:

WASH Technicians, Program Managers, Community WASH Promoters

Value:

Learn how to select appropriate household water treatment and safe storage (HWTS) solutions.

Increase the likelihood of sustained impact by selecting technologies and approaches that meet the needs and preferences of your target users.

Topics:

- What is HWTS?
- HWTS and The Multi-Barrier Approach to Safe Drinking Water
- HWTS Treatment Methods
- Successful Implementation of HWTS Program

Learning Outcomes:

You will be able to select HWTS options for your context and implement the HWTS project.





Training: Online

4 to 6 Weeks

(self paced virtual learning 1-2 hours of learning per week)

Introduction To Drinking Water Quality Testing (DWQT)

Audience:

WASH Technicians, Program Managers, Community WASH Promoters

Value:

Learn about water contaminations and test water to know the contamination, ensure that water treatment technologies are working effectively by learning to test water for contaminants using portable test kits.

Topics:

- Introduction to DWQT
- Aspects of Drinking Water Quality
- Getting to know water contaminations, sources and impact
- Water Sampling procedures
- Microbiological Testing Methods
- Turbidity
- Chemical Testing Methods
- Concentrations and Unit Conversions
- Chlorine Testing
- Interpretating Results
- Testimonials

Learning Outcomes:

You will be able to use portable water testing kits for contaminants in drinking water.





CAWST is a Canadian charity and licensed engineering firm. We address the global need for safe drinking water and sanitation by building local knowledge and skills on household solutions that people can implement themselves.

Learn more about us at <https://www.cawst.org/services>



S M Sehgal Foundation (Sehgal Foundation) is a public, charitable trust registered in India since 1999. Our mission is to strengthen community-led development initiatives to achieve positive social, economic, and environmental change across rural India. We envision every person across rural India empowered to lead a more secure, prosperous, and dignified life.

Learn more about us at smsfoundation.org



TOGETHER
WE EMPOWER
RURAL INDIA

