



Hand Hygiene for Health



ROTARY AUSTRALIA
WORLD COMMUNITY
SERVICE

A Handwashing Project
number 110 of 2017-18

BIRIBIE ISLAND
Rotary



HANDWASHING PREVENTS DISEASE

Polio, Covid 19, Common Cold, Dysentery, Influenza, Chicken Pox, Respiratory Infections, Meningitis, Hepatitis A, Norovirus

A handwashing behaviour change system for schools and communities that don't have access to taps, plumbing or a hygiene service



**1.5 litres of water upto 60 handwashes with soap minimal water
19 litres of water over 1000+ Handwashes with soap in freeflow**

A handwashing behaviour change system for Schools and communities, through a 'Train the Trainer' system.

OBJECTIVE -

The whole school or community should be capable of installing and using a SPATAP. The key will be the Headteacher or community leader's commitment, and they will need to understand the operation and installation. These skills and objectives learned will be passed on the school body of staff and students.

Train The Trainer ➡ <https://youtu.be/IZ2vKT8Eg8s>

Handwash Behaviour change ➡ <https://youtu.be/rkfOVkESBrY>

HHFH Website ➡ <https://handhygieneforhealth.org/>



EXAMPLE:

TRAINER TRAINS THE HEADTEACHER and appointed ASSISTANT. THIS ASSISTANT TRAINS THE TEACHERS.
TEACHERS TRAIN THE STUDENT BODY.

SCHOOLS:

The method starts by training the Headteacher, which is then passed onto the teaching staff, and then to the student body. This becomes a classroom task and is perpetual.

START:

This is a 3 stage process.

First: The 'why'

Second: The 'need.'

Third: The implementation.

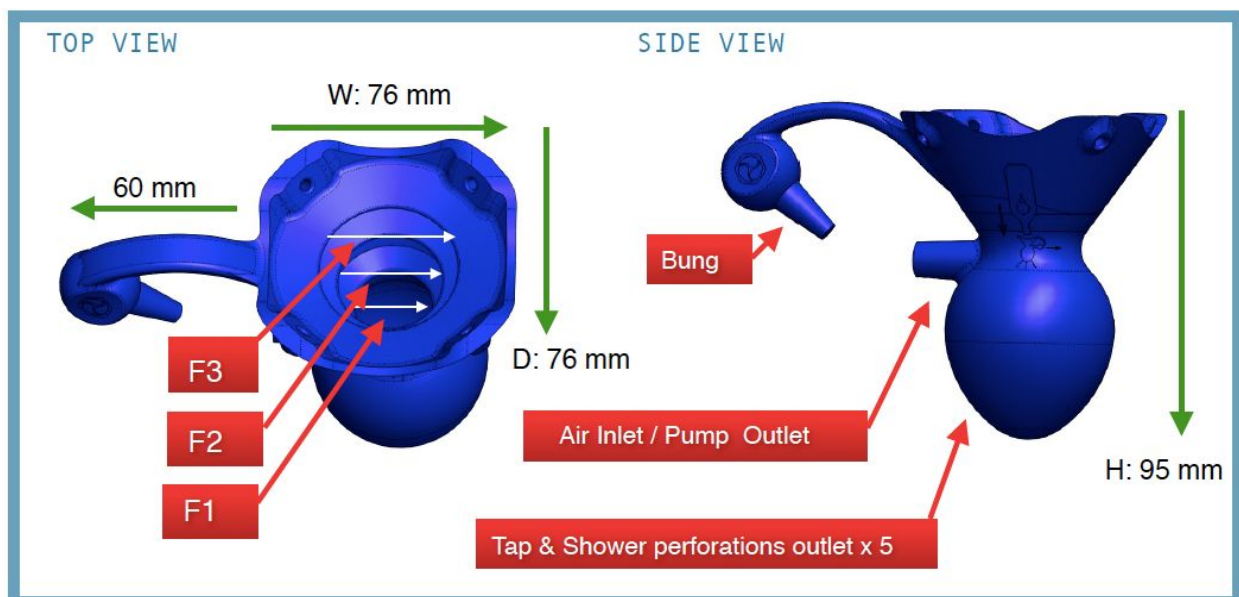
- A training session via the booklet with the implementing personnel, if no Train the Trainer is available.
- The assembly of the portable tap will be given in the brochure.
- This includes the SpaTap insertion, water dispensing, soap storage and the correct method of handwashing.

- Next is the introduction of Classroom roster charts. These create the routine behaviour change and the long-term success of the Program. Each class will have a roster, made by the teacher)
- The Headteacher introduces the system method to the appointed overseeing teacher now known as the "HHFH coordinator", via the brochure.
- This project will be incorporated into the school timetable. The 'train the trainer' of the coordinators will be formal, at a time suitable to the school; however, this should be carried out soonest, when the Taps are in situ.
- Teaching staff appoint two students every day and will be listed on the roster. Their duty will be to fill bottles of water and maintain their classroom tap. No other students are allowed to play with or install the SPATAP on this day.
- All students will be rotated for this duty as a privileged job. (Students feel it's the best job in the school and enjoy it!)
- Students are ultimately responsible for the installation and maintenance of their class SPATAP thus, they feel empowered.
- Teachers oversee and upskill students where required.
- After the full use of class rotation, all students will be actively taking part in handwashing behaviour

The outcome is, a lifetime habit, of clean hands by washing with soap and water.

- This knowledge learnt in an educational environment will reduce the spread of disease.
- Students will 'teach' and introduce the SpaTap system to the community, and possibly to each household, aid post, marketplace.

MODULE 1:



The appointed Trainer will demonstrate to designated personnel, the parts of the SPATAP as follows;

- Describe the main parts of SPATAP:
- THE BUNG,
- AIR INLET PUMP OUTLET,
- TAP & SHOWER OUTLET)
- BOTTLE INSERT INNER FLANGE
- **F1** SMALL BOTTLE LIP
- **F2** MEDIUM BOTTLE LIP
- **F3** BIG BOTTLE LIP.
- Pass to students, so everyone gets to handle the SPATAP and bottle set-up.
- Get the class to repeat 3 times the parts of SPATAPS
- Demonstrate how to attach a bottle by inverting the upright bottle and SPATAP to the HANGING position. Have filled bottles ready to go during the progression of the workshop.

MODULE 2: ➔ <https://youtu.be/JGkmrC4floI>

Installation Method;

1. HANG IN SPATAP IN PLACE CONVENIENT FOR CLASS HANDWASHING
2. MAKE SURE BUNG IS INSERTED CORRECTLY
3. INVERT THE SPATAP, SO OPENING FACES DOWN
4. INSERT FULL BOTTLE OF WATER UPWARDS
5. FIRMLY BOTTLE INTO SPATAP
6. FLIP THE BOTTLE
7. SECURE IN PLACE BY ADJUSTING CORD LOCK TOGGLE
8. INSERT A BAR OF SOAP, AND IS SECURED IN PLACE
9. INSTALLATION COMPLETED

Demonstrate the dispersion methods of the SPATAP.

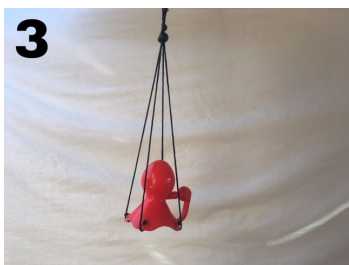
1. SQUEEZE WITH BUNG 'IN' FOR MINIMAL WATER USAGE
2. REMOVE BUNG FOR FREE FLOW OF WATER AND 'NO TOUCH' HANDWASHING
3. TOUCH HANDS-ON SOAP BAR
4. WASH HANDS WITH SOAP
5. RINSE WITH RUNNING WATER



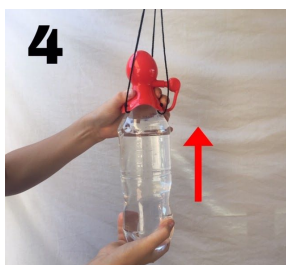
HANG SPATAP IN PLACE



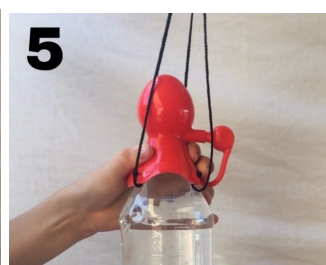
MAKE SURE BUNG IS INSERTED



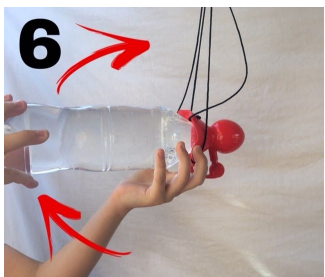
3
**INVERT THE SPATAP SO
OPENING FACES DOWN**



4
**INSERT FULL BOTTLE
OF WATER UPWARDS**



5
**FORCE FIT BOTTLE INTO
SPATAP**



6
FLIP THE BOTTLE



7
**SECURE IN PLACE ADJUST
CORD LOCK TOGGLE**



8
INSERT BAR OF SOAP



9
**SOAP SECURED IN PLACE &
COMPLETED INSTALLATION**



10
**SQUEEZE WITH BUNG IN
MINIMAL WATER USAGE**



11
**REMOVE BUNG FREE FLOW
WATER FOR HANDWASHING**



12
TOUCH/TAKE SOAP



13
WASH HANDS WITH SOAP



14
RINSE WITH RUNNING WATER

MODULE 3:

CLASSROOM DEMONSTRATION:

- A place to hang a SPATAP & BOTTLE
- Water filled bottle (Suggest 1.5litre)
- SPATAPS to pass around the class

- A selection of different size bottles made of different materials
- A roster system grid for the teachers to fill in.

MODULE 4: ➔ <https://youtu.be/IZ2vkT8Eg8s>

TRAIN THE TRAINER PROCEDURE:

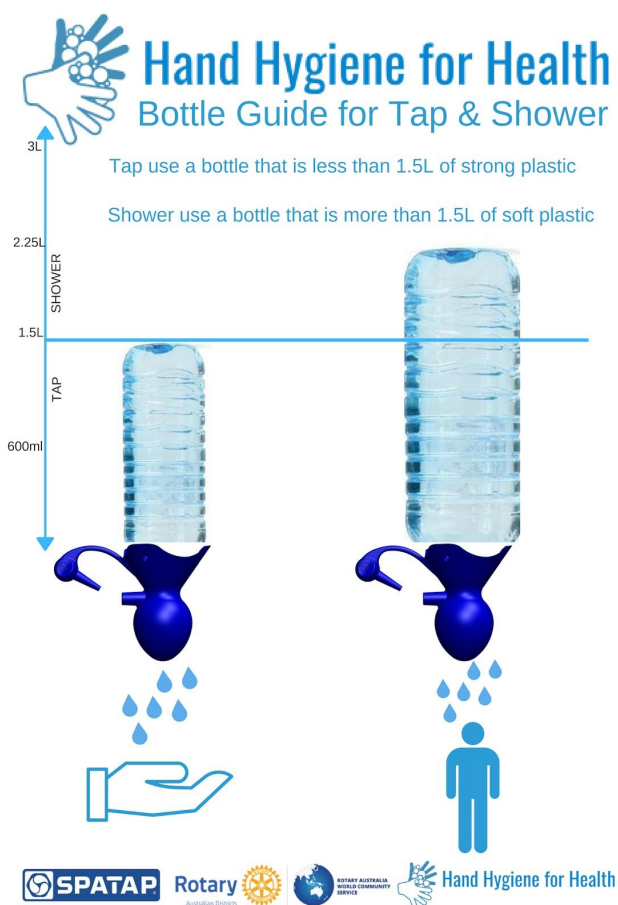
The Trainer requests a volunteer student and demonstrates how to attach the bottle. Explains that SPATAPS are to remain in situ, not to be interfered with or moved, unless permission from the teacher is given.

Demonstrate 3 ways of dispensing water.

1) *Minimal water mode* = ('Milking the cow')

2) *Free Flow* = ('Free Flow')

3) *Pump MODE* = ('Big Wash')



- Request students to demonstrate the 3 ways of dispensing water.
- Student No.1 could ask for a volunteer and Student No.1 to train student No.2. by demonstrating to student No.2 how to operate the SPATAP and check they are doing it correctly
- This is the start of the "Train the Trainer" and "handwashing champion role" as marked on the ROSTER sheet.

- REPEAT this step. Get student No.2 to ask for a volunteer.
 - Form a Queue and repeat the operation until everyone has participated and understands the SPATAP 3 ways of dispensing water.
- WHEN BOTTLE IS EMPTY, THE NEXT STUDENT IS TO FILL THE BOTTLE USING METHOD as above.
- Refill bottles in situ using the SPATAP bottle refill method, as demonstrated at the beginning of the workshop.

BREAK- Review session

MODULE 5: ➔ <https://youtu.be/yL-2lz9ABMU>

- WATER EFFICIENCY DEMONSTRATION

- DEMONSTRATION OF WATER EFFICIENCY EXERCISE
- Ask at least 2 or 3 classes of students (100 students?) to form a queue behind one SPATAP with 1.5litre of water
- Using only the "Milking The Cow" mode
- Ask teachers and Volunteer Students to keep a running count
- Ask students to see how many handwashes with soap can be achieved with 1.5litres of water, washing their hands for 20 seconds each. (Maybe singing a 20-second song?)
- This process demonstrates water efficiency
- REPEAT USING "FREE FLOW MODE"
- Ask teachers and Volunteer Students to keep a running count
- Ask students to see how many handwashes with soap can be achieved with 1.5litres of water
- This process demonstrates water efficiency

THE END OF THIS EXERCISE THE STUDENT WILL HAVE HYGIENICALLY CLEAN HANDS

Creating a 'French' drainage system assists with water dispensation at the site of the installed SPATAP, and is a pit filled with stones.

To do so, follow these suggestions:

1. Split up into classes find a suitable place to hang the SPATAP near to the Classroom.
2. Secure the SPATAP INTO POSITION
3. Choose a Place in the shade, not FULL SUNLIGHT
4. Plantings under the SPATAP could be considered, as they will be watered by the greywater
5. INVESTIGATE DRAINAGE OPTIONS, such as a French Drain of pebbles, stones and rocks in a pit. (Smallest to largest on top).
6. CHOOSE A SUITABLE SIZE BOTTLE TO HANG AS NEAR AS POSSIBLE TO THE TOILETS (15 to 20 Litres BIG BLUE BOTTLE RECOMMENDED)



MODULE 6: ➔ <https://youtu.be/-yczY2aYAkQ>

CREATING THE HAND WASH HABIT

- Teacher to make roster duties visible to the whole class.
 - Bottle filling /Handwashing champion
 - SPATAP cleaning every day by washing with soap and water.
 - The handwashing behaviour change is created by the IMPLEMENTATION OF THE ROSTER.
1. The teacher uses a simple roster system to assign duties for SPATAP management
 2. IMPORTANT: Teacher to inform the class of handwash times, e.g. before Class, Morning break, lunchtime after toilet.
 3. 2 students per day to refill bottles and install Classroom SPATAP
 4. One student to act as handwash Champion to monitor, water usage, behaviour, handwash cleanliness.
 5. Immediate and instant adherence to classroom WASH Policy.
 6. Upon successful completion of the course, students receive a certificate award for the cleanest hands and best kept and maintained SPATAPS. This is taken home and starts the interaction from child to adult.

THE REPETITION OF THIS SYSTEM WILL CREATE THE HANDWASHING HABIT

CLASS NAME HERE	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	CHAMPION
EXAMPLE	Jack & Jill	Frank & Steve	Jane & Johnny	Rae & Stuart	Patricia & Judy	Emily
WEEK 1						
WEEK 2						
WEEK 3						
WEEK 4						
WEEK 5						
WEEK 6						
WEEK 7						
WEEK 8						
WEEK 9						
WEEK 10						
WEEK 11						
WEEK 12						
WEEK 13						
WEEK 14						

[CLICK HERE TO DOWNLOAD A TEMPLATE ROSTER](#)

OR COPY FROM BACK PAGE

SPATAP is made of silicone, (not plastic) is UV stable - and is graded safe for food and water. However, do not leave it in direct sunlight as plastic bottles will expand and contract in the heat, and this causes leakage. Hang the SPATAP in the shade.

SPATAP can be cleaned easily, just like a cup or plate, put it in the washing up or wash it when you are using it.

You can turn SPATAP inside out to clean it thoroughly ready for its next usage.

Rotary Project Hand Hygiene For Health (HHFH) uses the SPATAP to transform most bottles or containers into flow-controllable handwashing taps, with a 'built-in' convenient soap caddy, to schools with the lack of no plumbing infrastructure. This device can be installed in a few seconds, anywhere, by anyone, including children as young as 5 years old. SPATAP provides an immediate, easy to operate handwashing station and is used by schools, communities and medical posts that have limited, basic or nonexistent hygiene services.

SPATAP use is an incredible water-saver and can dispense up to 60 Handwashes from just 1.5L of water.

- Use either 1 Touch Handwashing with minimal water used

Or

- No-touch handwashing

(Teacher Removes the bung and then replaces at the end of the Handwash practice)

Below are instructions for correct usage, please read carefully.

Just like any gadget, SPATAP has its own tips and tricks. We hope you realize the full potential of this multi-award-winning device, as it will serve handwashing and affiliated needs for many years.

As a rule use

Use a hard bottle for a tap (This is flow controllable with bung and squeeze modes)

Use a soft bottle for a power shower, the soft bottle will implode and force the water out under a higher water pressure (the thinner the container, the higher the water flow pressure)

Different bottles are made from different materials and will produce different results from the SPATAP (Instruct children to collect different bottles to see what works best and why?)

Select a bottle suitable for your purpose.

This will depend on your requirements for washing or water usage and intended flow use.

The selection of the correct bottle or container is essential for the best results.

Experiment and try many different bottles, containers, cans, jam jars, shampoo bottles, military canteens, soft plastic bottles of varying sizes, e.g. 600ml, 1L, 1.5L, 15L etc

The SPATAP can stretch and has been fitted onto 42mm bottle lips.



SPATAP on a 19L big blue bottle and tied to a coconut tree in Brilliant Star School, Honiara, Solomon Islands

Airtight Tip when using in Tap mode

Aim for an airtight seal, *remove any bottle rings*, and make sure the SPATAP inner flange is not crossing a bottle thread. This is important as any air gaps will produce a leak or slow drip when used in the tap mode. Aim for an airtight fit on all bottles. Still, if using a power shower bottle, then any leakage is not as significant as the whole bottle will empty throughout the shower.

For example:

- Harder plastic, metal or glass are good bottles (containers) to use for the 'tap' mode. In contrast, softer plastics are suitable for the eco shower, and some are good for both.
- Soft plastic bottles will implode and force the water out faster and quicker. These are suitable when water is abundant and where a power shower is required. It is best to use 2litre soft drinks bottles for this effect.
- Hard plastic Military canteens, 1-litre soft drink bottles and metal bottles are useful for hand washing, and water is scarce
- A 15-litre blue bottle is perfect for washing the hands of 300 children at a rural school

Select the correct container for your situation.

SPATAP is UV stable, but plastic drink bottles are not. If left in direct sun for over an hour, they tend to expand and contract and can cause leakage, so to avoid this, hang your SPATAP and bottle in the shade.

SPATAP is used recreationally and in the developing world where plumbing infrastructure and access to fresh water is challenging to obtain.

ROTARY Project to 'Hand Hygiene For Health' aims to ELEVATE Hygiene Poverty worldwide.

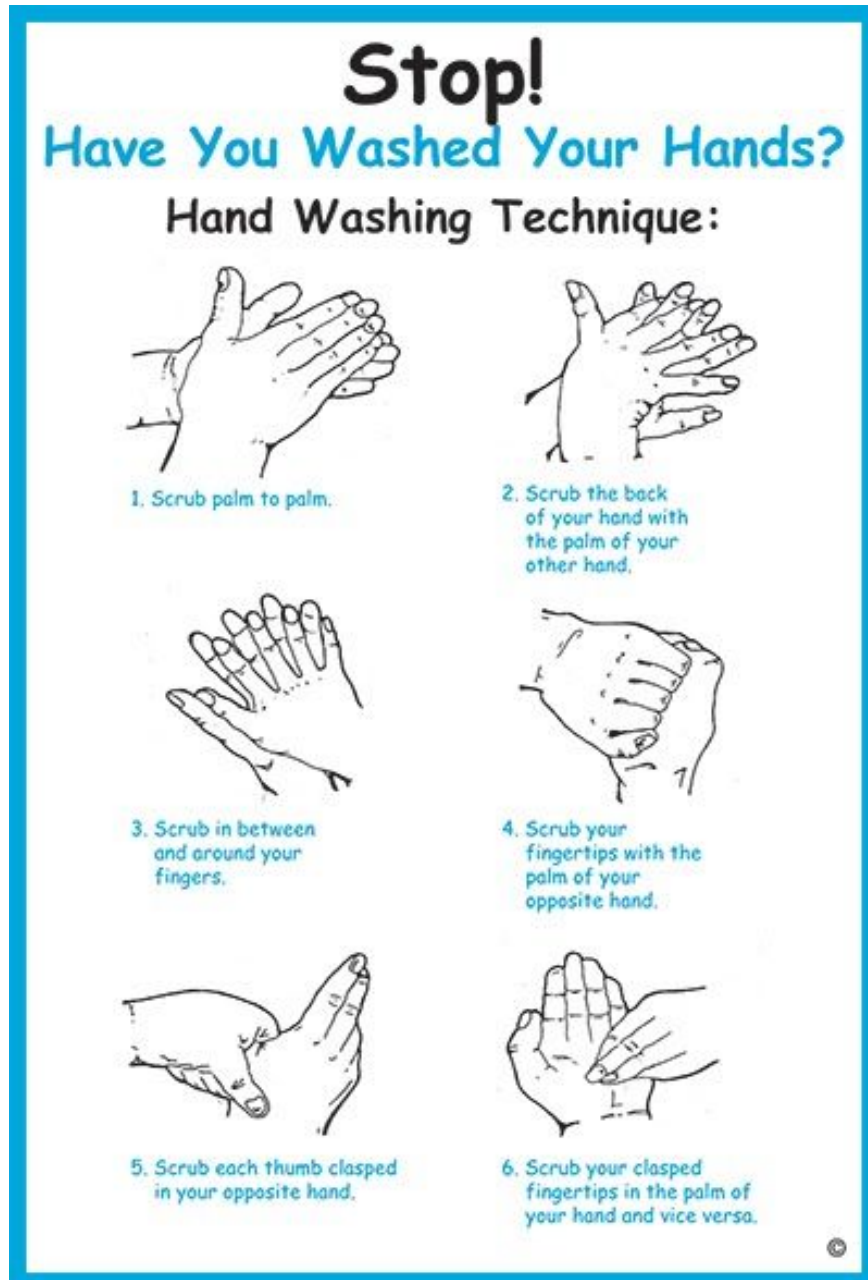
SOAP STORAGE ON BOTTLES



SOAP CADDY DEMONSTRATION: ➔ <https://youtu.be/J0U8lua3I30>

SPATAPS CAN BE COLOUR CODED FOR USE

E.g **Blue** for boys outside the Classroom, **Orange** outside toilets, **Clear** for medical, **Pink** for girls outside the Classroom



The 4 Principles of Hand Awareness:

1. WASH your hands when they are dirty and BEFORE eating.
2. DO NOT cough into your hands.
3. DO NOT sneeze into your hands.
4. Above all, DO NOT put your fingers into your eyes, nose, or mouth.

CLASS NAME HERE							
WEEKS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	CHAMPION	
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