



# IFRC disaster response tools

**Asia Pacific Surge Training:  
Emergency WASH**

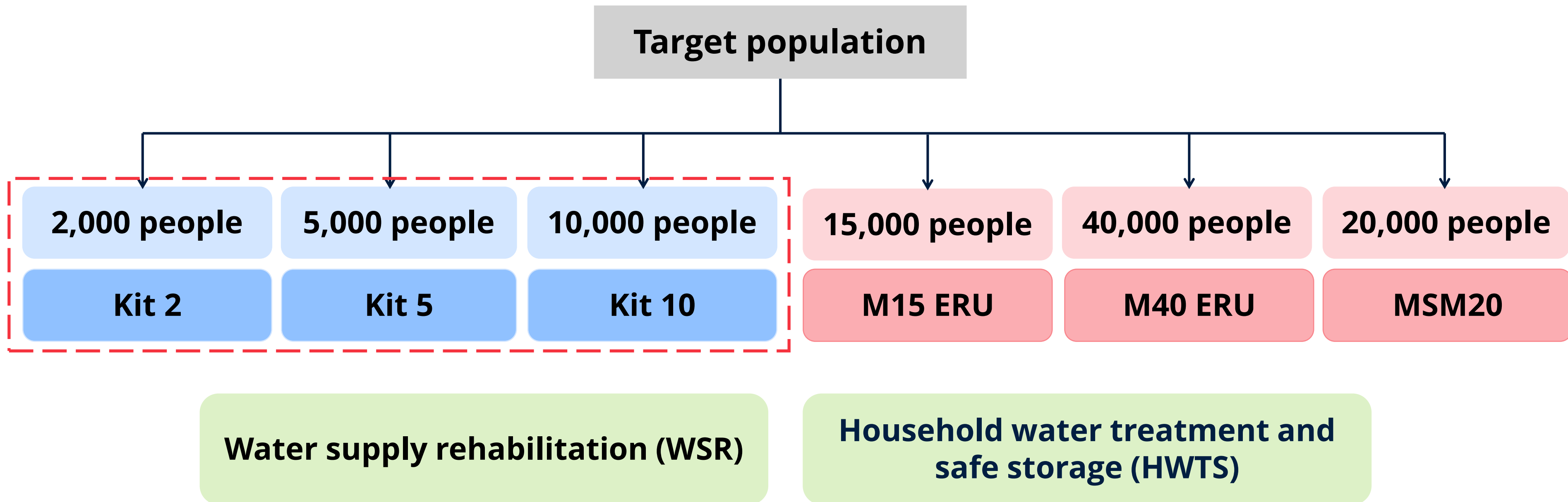
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# Learning objectives



- To have an understanding of the different types of IFRC disaster response tools
- To understand what each type of disaster response tool consist of and of the respective capacities/features

# WASH emergency response tools



# WASH emergency response tools: Kit 2



- The kit provides water treatment at **HH level for up to 2,000 people (400 families)**, with no central treatment or storage capacity
- Provides very basic sanitation facilities
- Designed for small scattered populations and when beneficiary numbers are limited

## Water

- This kit is designed to supply equipment to 400 families who can treat their own water
- Consumables to treat 500,000L of water giving 1,250L/family; sufficient for at least 1 month
- Water is tested for residual chlorine using pool tester and tablets; sufficient to carry out 500 tests

## Sanitation

- Provides basic sanitation needs
- 1 bar of soap and 1 low flow water dispenser for handwashing per family
- 20 squatting plates and sheeting to build latrines, giving 1 pit latrine for every 20 families

## Hygiene promotion

- Materials for a variety of HP activities are also included
- Contains one HP Box A

# WASH emergency response tools: Kit 2



[KIT 2, watsan disaster response, tablets, 2000 beneficiaries - Standard products catalogue](#)

Code	Description	Qty
WASDCHLA0040T	<b>Chlorine, 40mg (NaDCC 67mg), for 10L of water, 1 tablet</b>	<b>50,000</b>
WASDVASD00010	<b>Water purification agent, for 10L of water</b>	<b>50,000</b>
HCONJCANPF10	Jerry can, foldable, 10L, food grade plastic	400
HCONBUCKP14L	Bucket, plastic, 14L with clip cover and 50mm outlet	400
HCONJCANPWD	Water dispensing bag, hanging with low flow tap	400
WMEAPOOL10	Pool tester + accessories	2
WMEAPOOL10A	DPD1 tablets for dosing free chlorine	500
WMEAPOOL10B	DPD3 tablets for dosing total chlorine	500
WSANSQPL003	Squatting plates, polypropylene + drop hole cover, 1.2x0.8m	20
HSHETARPW460	Tarpaulins, woven plastic sheeting, 4x60m, white, roll	2
HHGYSOAPQ100G	Body soap, 100g, piece	400
KSANHYGP01A	Hygiene promotion box A, promotion items	1



# WASH emergency response tools: Kit 2





# WASH emergency response tools: Kit 2



Code	Description	Qty
APERFILTCC10	<b>Water filter, drip ceramic cartridge, household, 10L</b>	<b>400</b>
HCONJCANPF10	Jerry can, foldable, 10L, food grade plastic	400
HCONBUCKP14L	Bucket, plastic, 14L with clip cover and 50mm outlet	400
HCONJCANPWD	Water dispensing bag, hanging with low flow tap	400
WMEAPOOL10	Pool tester + accessories	2
WMEAPOOL10A	DPD1 tablets for dosing free chlorine	500
WMEAPOOL10B	DPD3 tablets for dosing total chlorine	500
WSANSQPL003	Squatting plates, polypropylene + drop hole cover, 1.2x0.8m	20
HSHETARPW460	Tarpaulins, woven plastic sheeting, 4x60m, white, roll	2
HHGYSOAPQ100G	Body soap, 100g, piece	400
KSANHYGP01A	Hygiene promotion box A, promotion items	1



[KIT 2, watsan disaster response, filters, 2000 beneficiaries - Standard products catalogue](#)

# WASH emergency response tools: Kit 2





# WASH emergency response tools: Kit 5 and Kit 10



## Water

### Kit 5

- For 5,000 people
- Up to 75,000L of water/day

### Kit 10

- For 10,000 people
- Up to 150,000L of water/day

## Sanitation

### Kit 5

- Initial sanitation equipment to build 35 latrines with consumables for up to 20 days
- Vector control

### Kit 10

- Initial sanitation equipment to build 70 latrines with consumables for up to 20 days
- Vector control

## Hygiene promotion

### Kit 5

- Contains one HP Box A

### Kit 10

- Contains one HP Box A + one HP Box B

- 1 bar of soap and 1 low flow water dispenser for handwashing per family

# WASH emergency response tools: Kit 5 and Kit 10



Code	Description	Qty (Kit 5)	Qty (Kit 10)
WWTUTREA04	Water purification unit, 4m <sup>3</sup> /hr at 100NTU, transportable	1	2
KWATRAMP06AP	1 tap stand + pipework	4	8
KWATTANKR10	Water tank, 10m <sup>3</sup> , rigid, corrugated	3	6
WPUCESRW001	Pump, end-suction, diesel, self-priming, lightweight, 2"/3.3kW	2	4
KWATTOOLPU01	Tool + engine oil, for pumping set-up	1	1
KWATTANKRT01	Tool, for rigid corrugated water tanks	1	1
WMEAPHMT0409	pH tester, colorimetric, from 4.5 to 9	1	2
KWATFITT05	Connectors	1	2
WMEACNDU01	Conductivity meter, wide range 0-20mS/cm	1	2
WMEAPHPA0014	Set of pH strips, 100 strips, 0 to 14	4	4
WASDCHLAG25	Chlorine, NaDCC granulates, >50% active chlorine, 25kg	1	2
WCHPALUSG50	Aluminum sulfate, granulates, 50kg bag	2	4
WMEAPOOL10	Pool tester + accessories	2	4

# WASH emergency response tools: Kit 5 and Kit 10



Code	Description	Qty (Kit 5)	Qty (Kit 10)
WNEPPESR63	Pipe, MDPE polyethylene, 63mm, NP10, coil, per meter	1	2
KWATWLAB02	Water lab test, bacteriologic + accessories, DelAgua	1	1
HCONJCANPF10	Jerry can, foldable, 10L, food grade plastic	1,000	2,000
HCONBUCKP14L	Bucket, plastic, 14L with clip cover and 50mm outlet	1,000	2,000
WSANLATRSE01	Latrine, rapid infrastructure, for 1 pit latrine	1,000	2,000
KWATTANKP05T	Water tank, flexible pillow, 5m <sup>3</sup> , transport/storage	1	2
WSANSQPL003	Squatting plates, polypropylene + drop hole cover, 1.2x0.8m	30	60
WSANSQPL002	Mold, for making latrine slabs, SanPlat type	1	1
HSHETARPW460	Tarpaulins, woven plastic sheeting, 4mx60m white, roll	3	6
WSANSPRA15	Sprayer, manual, backpack, 15L	2	4
KSANSPROSP01	Set of protective clothes, for 1 pax spraying chemicals	6	12
WCHPDELT2WP3	Deltamethrin, 'K-Othrine', 2.5%, wettable powder, 33g sachet	100	200
HHYGSOAP100G	Body soap, 100g, piece	2,000	4,000



# WASH emergency response tools: Kit 5 and Kit 10



Code	Description	Qty (Kit 5)	Qty (Kit 10)
WMEAPOOL10A	DPD1 tablets, for dosing free chlorine	500	1,000
WMEAPOOL10B	DPD3 tablets, for dosing total chlorine	500	1,000
WMEAPOOL10C	Red phenol tablets, for pH control	500	1,000
WASDVASD0010	Water purification agent, for 10L of water	3,000	3,000
KSANHYGP01A	Hygiene promotion Box A, promotion items	1	2



[KIT 5, WatSan Disaster Response, 5000 beneficiaries - Standard products catalogue](#)



[KIT 10, WatSan Disaster Response, 10000 beneficiaries - Standard products catalogue](#)

# WASH emergency response tools



Target population

2,000 people

5,000 people

10,000 people

15,000 people

40,000 people

20,000 people

Kit 2

Kit 5

Kit 10

M15 ERU

M40 ERU

MSM20

Water supply rehabilitation (WSR)

Household water treatment and  
safe storage (HWTS)

# WASH emergency response tools: M15 ERU



[ERU, Water and Sanitation, M15 - Standard products catalogue IFRC ICRC](#)

- This module consists of treatment, trucking/distribution, sanitation and HP
- Designed to respond to 3 to 5 densely populated locations, with flexible approach due to a number of smaller treatment units which can be split and set-up as standalone units
- **NSs providing this service:** Austrian, French, German, Spanish
- **Cost (indicative):** CHF 250,000
- **Personnel:** 4-6 people; Team leader, 1-2 WASH/chemical engineer, 1 technician/plumber, 1 logs/Admin/Finance

Water

- Water treatment and distribution of up to 225,000L of water/day, for population of up to 15,000 people, max 4 months
- Storage capacity of max 200,000L/day
- Integrated distribution and trucking capacity – able to transport treated water to multiple locations with a capacity of up to 75,000L of water/day
- 9 different storage and distribution points

Sanitation

- Basic sanitation for up to 5,000 people

Hygiene promotion

- Basic HP for up to 5,000 people (HP Box A)



# WASH emergency response tools: M15 ERU





# WASH emergency response tools: M40 ERU



[ERU, Water and Sanitation, M40 - Standard products catalogue IFRC ICRC](#)

- This module consists of treatment, trucking/distribution, and basic sanitation and HP
- Provides treatment and distribution of water for large populations
- **NSs providing this service:** Austrian, German (supported by Croatia and Macedonia), Swedish, French
- **Cost (indicative):** CHF 300,000
- **Personnel:** 4-6 people; Team leader, 1-2 WASH/chemical engineer, 1 technician/plumber, 1 Logs/Admin/Finance

## Water

- Water treatment and distribution of up to 600,000L of water/day, for population of up to 40,000 people, for a max of 4 months
- Storage capacity of max 200,000L/day
- Integrated distribution and trucking capacity – able to transport treated water to multiple locations with a capacity of up to 75,000L of water/day
- 9 different storage and distribution points

## Sanitation

- Basic sanitation for up to 5,000 people

## Hygiene promotion

- Basic HP for up to 5,000 people



# WASH emergency response tools: M40 ERU





# WASH emergency response tools: MSM20



[ERU, Water and Sanitation, MSM20 - Standard products catalogue IFRC ICRC](#)

- This module provides **integrated response to hygiene and sanitation** based on public health needs assessment, for **20,000 people** for a max 4 months
- **NSs providing this service:** Austrian, British, German, Spanish, Swedish
- **Cost (indicative):** CHF 200,000
- **Personnel:** 5-6 people; Team leader, 1-2 sanitation engineer, 1 hygiene promoter, 1 Logs/Admin/Finance

## Sanitation

- Basic sanitation facilities (including latrines, vector control and solid waste disposal) for up to 20,000 people

## Hygiene promotion

- HP (including community mobilization, hygiene education, and operation and maintenance)
- Contains four HP Box A + one HP Box B + one HP Box C



# WASH emergency response tools: MSM20





# WASH emergency response tools: Water Supply Rehabilitation (WSR)



- Consist of a **small team of specialized delegates** with limited equipment
- **Support a host NS to rapidly assess the state of and improve existing water system**
- The WSR can be deployed up to 4 months and able to transition into longer term recovery – can be deployed to settings where other ERUs are not deployed, alongside other ERUs and can continue past other ERUs
- The number of people that can be served by the WSR is not defined and depends on capacity and status of the existing water system – but is primarily intended for larger scale operations
- **NSs providing this service:** Norway, the Netherlands
- **Cost (indicative):** CHF 5,000 (equipment only e.g., surveillance, survey, camera and mapping tools)
- **Personnel:** 1-5 people; Team leader, emergency water supply engineer (bulk/networked systems & point/ground water sources), hygiene promoter/community mobiliser, logistics & contracting officer



[IFRC GO WSR](#)



# Household water treatment and safe storage (HWTS)



[IFRC GO HWTS](#)

- Is a lighter configuration of a water supply unit, with the capacity to design and implement a comprehensive **household water program**, including HP and safe storage components
- The module is deployed to support host NS in the establishment of a **household water treatment programme in emergencies** and has the capacity to work standalone up to 4 months, based on monthly rotations
- It can be also used as a support for other Emergency Response Units during the emergency response phase or as a solution for exit strategy.
- The number of people that can be served by the HWTS is not predefined. The minimum start-up capacity, however, is estimated in 1,000 families for the first month.
- **NSs providing this service:** Spanish
- **Personnel:** 1-6 people; Team leader/HWTS assessment lead, emergency water quality and treatment specialist, emergency community mobilization/HP specialist, distribution specialist, Admin/logs and contracting officer, market assessment and Cash-based assistance specialist



Thank you! Questions?

