

MOST IMMEDIATE

Government of Pakistan
Ministry of Economic Affairs,

No. 4(13) SEA/Singapore/2023.

Islamabad 15th December, 2023.

OFFICE MEMORANDUM

SUBJECT: - TRAINING COURSE ON "INTEGRATED WATER RESOURCES MANAGEMENT" TO BE HELD FROM 18 – 27 MARCH 2024 (Online) AND SELECTED PARTICIPANTS WILL ALSO ATTEND THE IN-PERSON COMPONENT CONDUCTED IN SINGAPORE FROM 6 TO 9 MAY 2024 UNDER SINGAPORE – UNICEF JOINT TRAINING PROGRAMME.

The undersigned is directed to inform that the Government of Singapore has invited two (02) nominations for the above partially funded training course. This programme comprises of two components virtual and in-person from 18 – 27 March 2024 (Online) and 6 TO 9 May 2024 (In person) respectively. Under the Singapore-UNICEFJTP arrangement, the Government of the Republic of Singapore and the UNICEF will bear the participant's course fees, local hospitality, training allowance, and group personal accident/hospitalization insurance. The round-trip airfare for participants will have to be borne by the nominating Ministry or Provincial Department.

2. The eligibility criteria and objectives of the subject course are as under:

Eligibility Criteria: -

- Permanent Government Officers (BS-17 and above) only and nominated by respective Federal Government or Provincial Department.
- Mid-to senior-level government officials involved in integrated water resources, water, sanitation as well as stormwater management.
- Able to attend all the synchronous e-learning sessions. Applicants will require an internet-enabled device with Zoom installed, and an internet-enabled device with functioning webcam, microphone and audio.
- Nominated by their respective governments.
- Proficient in written and spoken English as the course is conducted fully in English without translation.
- In good health.
- Prepared to participate actively in the programme.

Objective: -

- Conducted in collaboration with UNICEF, this course discusses approaches to integrated water resources and storm water management to deal with the extreme weather conditions brought on by climate change.

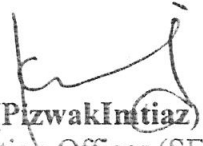
3. Nomination of suitable candidates duly approved by the competent authority along with the following documents may kindly be forwarded to this Division by **15th January, 2024 (Friday)** positively. Nominees are requested to apply online at <https://go.gov.sg/waterresources2024> before **15th January, 2024**. Online applications are a mandatory requirements and nominations without online applications will not be entertained.

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Required Documents:

1	Nomination letter in original	01 copy
2	Filled in Performa for FTC	01 copy
3	Application form	02 copies
4	CNIC & Photograph	02 copies each
5	Passport	01 copy
6.	Surety Bond and Undertaking	01 copy each

4. In case of incomplete/late submission of documents, nomination will not be entertained. Moreover, any deliberate provision of wrong information on part of the candidate shall be liable to be rejected.


(Pizwak Intiaz)
Section Officer (SEA)
Ph: 051-9202084

1. Secretary, Ministry of Water Resources, Islamabad.
2. Secretary, Ministry of Climate Change, Islamabad.
3. Chairman, Planning & Development Board Government of Punjab, Lahore.
4. Chairman, Planning & Development Board Government of Sindh, Karachi.
5. Additional Chief Secretary Planning & Development Department Government of Khyber Pakhtunkhwa, Peshawar.
6. Additional Chief Secretary Planning & Development Department Government of Balochistan, Quetta.
7. Additional Chief Secretary Planning & Development Department Government of Azad Jammu & Kashmir, Muzaffarabad.
8. Additional Chief Secretary Planning & Development Department Government of Gilgit Baltistan, Gilgit.

Copy forwarded for information: -

1. Joint Secretary (EC), EAD.
2. Joint Secretary (Training), Establishment Division, Islamabad.
3. Section Officer (UN-III/Secretary FTC), EAD.
4. Network & System Administrator, EAD.



MFA/TCD/00079/2023

The Ministry of Foreign Affairs of the Republic of Singapore presents its compliments to all National Focal Points for Technical Assistance and has the honour to invite applications for the course on “Integrated Water Resource Management”, to be conducted from 18 to 27 March 2024, followed by 6 to 9 May 2024 under the Singapore – UNICEF Joint Training Programme (Singapore-UNICEF JTP).

The Ministry of Foreign Affairs of the Republic of Singapore has the further honour to inform all National Focal Points for Technical Assistance under the Singapore-UNICEF JTP, the Government of the Republic of Singapore and the UNICEF are pleased to consider two (2) suitable applicants nominated by each National Focal Point. The application must be completed in full and endorsed by the respective National Focal Point via the Singapore Cooperation Programme website (<https://www.scp.gov.sg>) by **Monday, 22 January 2024**.

Successful applicants will be notified accordingly via Letters of Acceptance. The Ministry will not accept into the course any applicant who arrives in Singapore without an official Letter of Acceptance. Under the Singapore-UNICEF JTP arrangement, the Government of the Republic of Singapore and the UNICEF will bear the participant's course fees, local hospitality, training allowance, and group personal accident/hospitalisation insurance. Details on the course and the application procedures are available in the attached brochure.

The Ministry of Foreign Affairs of the Republic of Singapore avails itself of this opportunity to renew to all National Focal Points for Technical Assistance the assurances of its highest consideration.



SINGAPORE

13 December 2023

All National Focal Points for Technical Assistance

**SINGAPORE COOPERATION PROGRAMME
SINGAPORE-UNICEF JOINT TRAINING PROGRAMME
GENERAL INFORMATION BROCHURE**

Singapore – UNICEF IWRM Partnership, 18 th March – 27 th March 2024 (Virtual Component)					
Start 14:00 SGT	Day 1 (18 March) Monday	Day 2 (19 March) Tuesday	Day 3 (20 March) Wednesday	Day 4 (21 March) Thursday	(22 March) Friday
14:00 - 14:15 SGT	<p>Session 1.1a: (Joint Module) Welcome, Opening Remarks (MFA and UNICEF) and Photo Session via online platform</p> <p>Opening remarks</p>	<p>Session 2.1a: Recap of Day 1</p>	<p>Session 3.1a: Recap of Day 2</p>	<p>Session 4.1a: Recap of Day 3</p>	Rest Day
14:15 - 15:00 SGT	<p>Session 1.1b: (Joint Module) Self-introduction by Participants</p>	<p>Session 2.1b: (PUB Module) Singapore's Approach to Sustainable Stormwater Management and the Active, Beautiful, Clean (ABC Waters) Programme</p>	<p>Session 3.1b: (PUB Module) Water Reclamation Networks Management</p>	<p>Session 4.1b: (UNICEF Module) Leaving No One Behind: Targeting the Poorest and the Most Vulnerable: Tools and Methods</p>	
15:00 - 15:45 SGT	<p>Session 1.1c: (UNICEF Module) Programme and SDG Overview</p>	<p>Session 2.1c: (PUB Module) Towards Water Sustainability and Climate Resilience – Coastal Protection</p>	<p>Session 3.1c: (PUB Module) Integrated Used Water Management – Waste to Resource</p>	<p>Session 4.1c: (UNICEF Module) Gender and social Inclusion in Water Supply Sanitation and Hygiene (WASH)</p>	
15:45 - 16:00 SGT	Tea Break	Tea Break	Tea Break	Tea Break	
16:00 - 17:30 SGT	<p>Session 1.2: (PUB Module) From Scarcity to Sustainability: Integrated Water Resources Management in Singapore</p>	<p>Session 2.2a: (PUB Module) Integrated Water Supply Management</p> <p>Session 2.2b: (PUB Module) Water Supply Network Management</p>	<p>Session 3.2a: (PUB Module) Integrated Water Quality Management – Ensuring Safe Drinking Water</p> <p>Session 3.2b: (PUB Module) PUB's Approach and Strategies towards Water Sustainability and Climate Resilience</p>	<p>Session 4.2a: (UNICEF Module) WASH Enabling Environment – Bottleneck Analysis Tools and Methods</p> <p>Session 4.2b: (UNICEF Module) WASH Financing</p>	
17:30 SGT	End of Day 1 Programme	End of Day 2 Programme	End of Day 3 Programme	End of Day 4 Programme	

SINGAPORE COOPERATION PROGRAMME
SINGAPORE-UNICEF JOINT TRAINING PROGRAMME
GENERAL INFORMATION BROCHURE

Singapore – UNICEF IWRM Partnership, 18 th March – 27 th March 2024 (Virtual Component)			
	Day 5 (25 March) Monday	Day 6 (26 March) Tuesday	Day 7 (27 March) Wednesday
Start 14:00 SGT	Session 5.1a: Recap of Day 4	Session 6.1a: Recap of Day 5	Session 7.1a: Recap of Day 6
14:00 - 14:15 SGT			
14:15 - 15:45 SGT	Session 5.1b: (UNICEF Module) WASH-Water Resource Management Cooperation Framework & Case Studies	Session 6.1b: (UNICEF Module) Identifying-appraising Options & Delivering Solutions, Virtual field visits / Case studies	Session 7.1b: (UNICEF Module) WASH & Climate Financing & Case study
15:45 - 16:00 SGT	Tea Break	Tea Break	Tea Break
16:00 - 17:30 SGT	16:00 – 16:30 Session 5.2a: (UNICEF Module) Introduction to the Strategic Framework for Climate Resilient WASH Services	16:00 – 17:00 Session 6.2a: (UNICEF Module) Monitoring	16:00 – 17:00 Session 7.2a: (PUB Module) PPP Approach for Water Infrastructure Projects
	16:30 – 17:30 Session 5.2b: (UNICEF Module) Climate Risk Analysis for WASH & Case Study	17:00 – 18:00 Session 6.2b: (Joint Module) NGO sharing / Industry Networking Panel discussion	17:00 – 18:00 Session 8.2b: (Joint Module) Closing Closing remarks
			Group Photo-taking Session via Online Platform
17:30 SGT	End of Day 5 Programme	18:00 End of Day 6 Programme	18:00 End of MFA-UNICEF WASH Programme

INTEGRATED WATER RESOURCES MANAGEMENT

6 – 9 MAY 2024

(IN-PERSON COMPONENT)

Jointly sponsored by the

SINGAPORE COOPERATION PROGRAMME

and the

**UNITED NATIONS CHILDREN'S FUND
EAST ASIA AND PACIFIC REGIONAL OFFICE**

under the

SINGAPORE – UNICEF JOINT TRAINING PROGRAMME

to be conducted by

**PUB, SINGAPORE'S NATIONAL WATER AGENCY –
SINGAPORE WATER ACADEMY**

and the

UNICEF

Singapore Cooperation Programme

Singapore has provided technical assistance to other developing countries since the 1960s. As a country whose only resource is its people, Singapore believes that human resource development is vital for economic and social progress. Singapore itself has benefited from training provided by other countries and international organisations.

In 1992, the Singapore Cooperation Programme (SCP) was established to bring together under one framework the various technical assistance programmes offered by Singapore. Through the SCP, the range and number of training programmes were increased to share Singapore's development experience with other developing countries.

To date, more than 150,000 officials from more than 180 developing countries, territories and intergovernmental organisations have participated in our courses and study visits. The SCP is managed by the Technical Cooperation Directorate of the Singapore Ministry of Foreign Affairs.

UNICEF

UNICEF works in over 190 countries and territories to save children's lives, to defend their rights, and to help them fulfil their potential, from early childhood through adolescence. UNICEF has spent 70 years working to improve the lives of children and their families. Safe water, improved sanitation and good hygiene (WASH) is a foundation for development towards health, equity, gender equality and education and is at the center of the 2030 agenda for Sustainable Development.

Goal 6 of the Sustainable Development Goals (SDGs) aims to "ensure availability and sustainable management of water and sanitation for all". UNICEF works within the framework of this new development agenda to support governments in achieving these goals. Water is a precondition to life on Earth and is essential for sustainable development. Safe drinking water and sanitation are human rights and critical for socioeconomic development, food security and healthy ecosystems.

However, the global climate change crisis is increasing the variability in the water cycle. This translates into negative impacts on drinking water availability and quality, and also in negative performance of sanitation and hygiene services, with challenges to physical accessibility and impacts on affordability. Concerns for water supply include damage to infrastructure from flooding, loss of water sources due to declining rainfall and increasing demand, and changes in the quality of drinking water sources and within water distribution networks. Sanitation concerns include damage and reduced carrying capacity of sewers receiving wastewater.

SDG 13 aims to "take urgent action to combat climate change," representing an important milestone which was not addressed in the previous Millennium Development Goals. It includes increasing adaptation and resilience at both the national and community levels and building capacity at all levels to respond to the impacts of Climate Change. Because the impacts of Climate Change are most commonly experienced through the medium of water, the adaptation measures required target many aspects of the Water, Sanitation and Hygiene (WASH) sector.

Key actions to reduce climate risks include integrating climate resilience measures into water safety plans, as well as improved accounting and management of water resources. To address these growing threats to the WASH system due to changing climate, UNICEF adopts a resilient approach in its WASH programming across the countries helping governments and partners to better design and implement a Climate Resilient WASH Programme. For more information on UNICEF, please visit <https://www.unicef.org>.

PUB, Singapore's National Water Agency

PUB is the national water agency, and manages Singapore's water supply, water catchment and used water in an integrated way. PUB has ensured a diversified and sustainable supply of water for Singapore with the Four National Taps – local catchment water, imported water, high-grade reclaimed water known as NEWater, and desalinated water. Its approach to water management can be distilled into three key strategies: collect every drop of water, reuse water endlessly, and desalinate more seawater. For more information on PUB, please visit <https://www.pub.gov.sg>.

Singapore Water Academy

To enhance capability development, PUB has set up the Singapore Water Academy, a practitioner-focused institution in urban water management.

Besides providing training for PUB staff, the Academy also trains the industry to strengthen current competencies and develop future capabilities. It also welcomes international participants to its programmes, which address engineering and operations, and business leadership and governance.

Course Objective

Conducted in collaboration with UNICEF, this course discusses approaches to integrated water resources and stormwater management to deal with the extreme weather conditions brought on by climate change. **This programme comprises of two components – virtual and in-person (refer to Course Duration, Application Procedure and General Information Brochure for the In-Person Component attached for more information).**

In-Person Course Outline

This course topics will include, but not be limited to, the following:

- Immersive experience of Singapore's integrated water resource management with site visits to key PUB installations such as the Marina Barrage, Stamford Detention Tank, Changi Water Reclamation Plant, Water Quality Laboratory, and Network Leak Detection and Management Demonstration;
- Panel Discussion with PUB Experts;
- Practice workshop on Bottleneck Analysis for sustained WASH services;
- Facilitated session for participants to work on project proposals.

Methodology

The course will be conducted in English through a mix of site visits, discussions, and practical

exercises with the aim of maximising engagement and exchange of experience among participants.

Course Duration

The programme will be conducted in person over four days from **6 to 9 May 2024** in Singapore.

The virtual component will be conducted over seven days from **18 to 27 March 2024**, from **14:00 to 17:30** (Singapore time; UTC+08:00).

Application Information

Applicants should be:

- **Participate in Virtual Component of the course.**
- Mid-to senior-level government officials involved in integrated water resources, water, sanitation as well as stormwater management.
- Nominated by their respective governments.
- Proficient in written and spoken English as the course is conducted fully in English without translation.
- In good health.
- Prepared to participate actively in the programme.

Terms of Award

The course is jointly sponsored by the Government of Singapore and the UNICEF under the Singapore-UNICEF Joint Training Programme.

Under this programme arrangement, the Government of Singapore will bear the following expenses for the successful applicants (thereafter known as participants) during their training in Singapore.

These expenses include:

- Course fees, including lecture fees, administrative fees, and course materials.
- Accommodation for the entire duration of the course. Complimentary breakfast is provided in the hotel from the first day of the course to one day after the course;
- A daily allowance of One Hundred and Twenty Singapore Dollars (S\$120) from the first day to the last day of the course. A proportionate reduction in the daily training allowance will be

made if you are unable to attend the full duration of the course;

- Transportation to the training venue and site visits during the course; and
- Basic insurance coverage (Group Hospitalisation and Surgical; Group Personal Accident) for the duration of the course in Singapore, in accordance with the policy of a local insurance company. This does not cover any pre-existing conditions/ illnesses and/or any outpatient medical/ dental treatment. Participants are personally liable for all medical expenses beyond what is covered by the insurance policy.

Note:

- The nominating government will be responsible for its participants' round-trip airfares;
- Participants are to bear all expenses prior to receiving the per diem; and
- As the basic insurance coverage is limited, participants are strongly advised to purchase comprehensive travel insurance which includes adequate coverage of COVID-19 related expenses and medical evacuation in the event of any unexpected emergencies.

Regulations

Participants are required to comply with the following:

- For entry into Singapore, participants are required to adhere to the latest travel and health requirements/advisories as indicated at www.ica.gov.sg/enter-transit-depart;
- Strictly observe course schedules and attend all training sessions;
- Carry out instructions and abide by conditions as may be stipulated by the nominating Authority or Government and the Government of Singapore and its appointed trainer, with respect to the course;
- Not bring any member of their family and/or aide during the duration of the course;
- Not to engage in political activities, or any form of employment for profit or gain while in Singapore;
- Discontinue the course, in the event they fall seriously ill and are considered unable to

continue the course or have committed an improper act;

- Return to their respective home countries upon completion of the course.

Application Procedure

(Closing date for nomination: **22nd January 2024**)

Nominees for the in-person programme must have obtained the electronic certificate of completion for the virtual programme and the selection of candidates will be based on merit, the evaluation of written proposals submitted after the virtual programme, and other factors. Should there be more applicants than training places, the Government of Singapore seeks the understanding of the respective National Focal Point for Technical Assistance in the event that its nominee(s) is not selected.

All nominees are to submit their applications online at <https://go.gov.sg/waterresources2024> by **Monday, 22 January 2024**. All application forms must also be **endorsed** by the respective Ministry of Foreign Affairs or National Focal Point for Technical Assistance via email links. Instructions and FAQs for Applicants and NFPs can be found at the links below:

- Applicants: <https://go.gov.sg/start-guide>
- NFPs: <https://go.gov.sg/start-nfp>

Note:

- Participants will receive a certificate of completion from the SCP upon completion of the in-person course.
- Please refrain from making telephone and email inquiries on the status of your application while your application is being processed.
- The **Ministry of Foreign Affairs, Singapore** will inform all applicants of the outcome of their applications. The NFP will also be informed directly.
- Flight arrangements are to be made only upon receipt of the Letter of Acceptance to the course.

Follow us at:

- SCP Website: www.scp.gov.sg
- Facebook: www.facebook.com/SCPFriends

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Singapore – UNICEF IWRM Partnership, 6 th May – 9 th May 2024 (In-Person Component)				
Start 09:00 SGT	Day 1 (6 May) Monday	Day 2 (7 May) Tuesday	Day 3 (8 May) Wednesday	Day 4 (9 May) Thursday
09:00 – 09:30 SGT	Session 1.1a: (Joint Module) Welcome, Opening – Welcome & Opening Remarks (MFA and UNICEF) – Group Photo Session Opening remarks	Session 2.1a: Recap of Day 1	Session 3.1a: Recap of Day 2	Session 4.1a: Recap of Day 3
09:30 – 10:30 SGT	09:30 – 10:15 Session 1.1b: (PUB Module) Familiarising and Navigating Through SgWA Mobile Learning Platform Session 1.1c: (Joint Module) Self-Introduction by Participants	Session 2.1b: (UNICEF Module) Recap on Climate Risk Analysis, Identifying Options, Delivering Solutions and Monitoring	Session 3.1b: (Joint Module) Travel to Water Quality Laboratory Session 4.1: (PUB Module) 09:45 – 10:30 Site Visit: Water Quality Laboratory	09:30 – 09:45 Participants Preparation for Panel Discussion (select one participant to be moderator for the Panel Discussion)
10:30 – 11:00 SGT	10:15 – 10:45 Tea Break	Tea Break	Tea Break	Tea Break
11:00 – 12:30 SGT	10:45 – 12:30 Session 1.2: (Joint Module) Participants' Project Proposal Sharing (To be Attended by an Expert Panel)	Session 2.2: (UNICEF Module) Practice Workshop on Climate Risk Analysis, Identifying Options, Delivering Solutions and Monitoring	Session 3.2: (PUB Module) Industry Networking Session	11:00 – 12:00 Session 4.2: (PUB Module) Panel Discussion – Integrated Water Resources Management (moderated by student moderator)
12:30 – 13:30 SGT	Lunch	Lunch	Lunch	Panelists (TBD)
13:30 – 15:30	13:30 – 14:00 Travel to Marina Barrage 14:00 – 15:00 Session 1.3: (PUB Module) Site Visit: Marina Barrage	13:30 – 14:00 Travel to Woodleigh Complex 14:00 – 15:00 Session 2.3: (PUB Module) Site Visit: Demonstration of Leak Detection Sensors, Customer Response Vans, Temporary Supply Vehicles and Water Bag Filling Machines at Woodleigh Complex	13:30 – 14:00 Travel to NEWater Visitor Centre 14:00 – 15:00 Session 3.3: (PUB Module) Site Visit: NEWater Visitor Centre	12:00 – 14:00 Hosted Lunch (inc. travel time) 14:00 – 15:30 Session 4.3: (Joint Module) Dedicated Time for Participants to Work on Project Proposal and Presentation
15:00 – 15:30 SGT	Tea Break + Travel to Stamford Detention Tank	Tea Break + Travel to Marina Barrage	Tea Break	15:30 – 16:00 Tea Break

SINGAPORE COOPERATION PROGRAMME
SINGAPORE-UNICEF JOINT TRAINING PROGRAMME
GENERAL INFORMATION BROCHURE

Singapore – UNICEF WRM Partnership, 6 th May – 9 th May 2024 (In-Person Component)				
15:30-18:00 SGT	15:30 – 16:30 Session 1.4a: (PUB Module) Site Visit: ABC Waters Projects Along Kallang River	15:30 – 16:30 Session 2.4: (PUB Module) Site Visit: Demonstration of Ice Flushing/Air Scouring of Water Pipes	15:30 – 16:15 Travel to Changi Water Reclamation Plant (CWRP) 16:15 – 18:00 Session 3.4: (PUB Module) Site Visit: Changi Water Reclamation Plant (CWRP)	16:00 – 17:15 Session 4.4a: (Joint Module) Presentation of Project Learning Outcomes and Project Proposal by Participants To be Attended by Expert Panel (TBD)
	16:30 – 17:00 Travel to Stamford Detention Tank 17:00 – 18:00 Session 1.4b: (PUB Module) Site Visit: Stamford Detention Tank			17:15 – 18:00 Session 4.4b: Closing Closing remark by: XX Closing remark by: Nominated Participant Certificate Award Ceremony Photo-taking Session
18:00 SGT	End of Day 1 Programme	16:30 End of Day 2 Programme	End of Day 3 Programme	End of Day 4 Programme

**INTEGRATED WATER RESOURCES MANAGEMENT
18 – 27 MARCH 2024
(VIRTUAL COMPONENT)**

Jointly sponsored by the
SINGAPORE COOPERATION PROGRAMME
and the
**UNITED NATIONS CHILDREN'S FUND
EAST ASIA AND PACIFIC REGIONAL OFFICE**
under the
SINGAPORE – UNICEF JOINT TRAINING PROGRAMME
to be conducted by
**PUB, SINGAPORE'S NATIONAL WATER AGENCY –
SINGAPORE WATER ACADEMY**
and the
UNICEF

Singapore Cooperation Programme

Singapore has provided technical assistance to other developing countries since the 1960s. As a country whose only resource is its people, Singapore believes that human resource development is vital for economic and social progress. Singapore itself has benefited from training provided by other countries and international organisations.

In 1992, the Singapore Cooperation Programme (SCP) was established to bring together under one framework the various technical assistance programmes offered by Singapore. Through the SCP, the range and number of training programmes were increased to share Singapore's development experience with other developing countries.

To date, more than 150,000 officials from more than 180 developing countries, territories and intergovernmental organisations have participated in our courses and study visits. The SCP is managed by the Technical Cooperation Directorate of the Singapore Ministry of Foreign Affairs.

UNICEF

UNICEF works in over 190 countries and territories to save children's lives, to defend their rights, and to help them fulfil their potential, from early childhood through adolescence. UNICEF has spent 70 years working to improve the lives of children and their families. Safe water, improved sanitation and good hygiene (WASH) is a foundation for development towards health, equity, gender equality and education and is at the center of the 2030 agenda for Sustainable Development.

Goal 6 of the Sustainable Development Goals (SDGs) aims to "ensure availability and sustainable management of water and sanitation for all". UNICEF works within the framework of this new development agenda to support governments in achieving these goals. Water is a precondition to life on Earth and is essential for sustainable development. Safe drinking water and sanitation are human rights and critical for socioeconomic development, food security and healthy ecosystems.

However, the global climate change crisis is increasing the variability in the water cycle. This translates into negative impacts on drinking water availability and quality, and also in negative performance of sanitation and hygiene services, with challenges to physical accessibility and impacts on affordability. Concerns for water supply include damage to infrastructure from flooding, loss of water sources due to declining rainfall and increasing demand, and changes in the quality of drinking water sources and within water distribution networks. Sanitation concerns include damage and reduced carrying capacity of sewers receiving wastewater.

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Key actions to reduce climate risks include integrating climate resilience measures into water safety plans, as well as improved accounting and management of water resources. To address these growing threats to the WASH system due to changing climate, UNICEF adopts a resilient approach in its WASH programming across the countries helping governments and partners to better design and implement a Climate Resilient WASH Programme. For more information on UNICEF, please visit <https://www.unicef.org>.

PUB, Singapore’s National Water Agency

PUB is the national water agency, and manages Singapore’s water supply, water catchment and used water in an integrated way. PUB has ensured a diversified and sustainable supply of water for Singapore with the Four National Taps – local catchment water, imported water, high-grade reclaimed water known as NEWater, and desalinated water. Its approach to water management can be distilled into three key strategies: collect every drop of water, reuse water endlessly, and desalinate more seawater. For more information on PUB, please visit <https://www.pub.gov.sg>.

Singapore Water Academy

To enhance capability development, PUB has set up the Singapore Water Academy, a practitioner-focused institution in urban water management.

Besides providing training for PUB staff, the Academy also trains the industry to strengthen current competencies and develop future capabilities. It also welcomes international participants to its programmes, which address engineering and operations, and business leadership and governance.

Course Objective

Conducted in collaboration with UNICEF, this course discusses approaches to integrated water resources and stormwater management to deal with the extreme weather conditions brought on by climate change. **This programme comprises of two components – virtual and in-person (refer to Course Duration, Application Procedure and General Information Brochure for the In-Person Component attached for more information).**

Virtual Course Outline

This course topics will include, but not be limited to, the following:

- Singapore’s approach and strategies towards enhancing climate resilience;
- Integrated management of water resources, water quality, potable water and used water in Singapore;
- Stormwater management strategies;
- Active, Beautiful and Clean Waters (ABC Waters) Programme;
- Coastal protection for climate resilience;
- Water sustainability and circular economy in Singapore;
- PPP approach for water in Singapore;
- Visits to key project sites by PUB;
- Climate resilient for water, sanitation and hygiene (WASH) Framework.
- Climate Risk Analysis for WASH

- Risk Assessment Tools for Climate Change impacts to Water and Sanitation systems
- WASH-Water Resource Management Cooperation Framework
- Appraising and identifying appropriate Climate resilient options and solutions for resilient WASH systems
- WASH Enabling Environment and WASH Bottleneck Analysis for sustained WASH services;
- WASH & Climate Financing

Methodology

The course will be conducted in English through a mix of lectures, questions and answers, and case study discussions, with the aim of providing relevant information for the participants to include newly conceived ideas and to work on their written proposals.

Course Duration

The programme will be conducted virtually over seven days from 18 to 27 March 2024, from **14:00 to 17:30 (Singapore time; UTC+08:00)**. Selected participants will also attend the **in-person** component conducted in Singapore from 6 to 9 May 2024.

Application Information

Applicants should be:

- Mid-to senior-level government officials involved in integrated water resources, water, sanitation as well as stormwater management.
- Able to attend **all** the synchronous e-learning sessions. Applicants will require an internet-enabled device with Zoom installed, and an internet-enabled device with functioning webcam, microphone and audio.
- Nominated by their respective governments.
- Proficient in written and spoken English as the course is conducted fully in English without translation.
- In good health.
- Prepared to participate actively in the programme.

Terms of Award

The course is jointly sponsored by the Government of Singapore and the UNICEF under the Singapore-UNICEF Joint Training Programme.
Application Procedure

(Closing date for nomination: **22 January 2024**)

The Government of Singapore and UNICEF are pleased to invite the respective National Focal Point for Technical Assistance to nominate **two (2)** suitable applicants. Selection of candidates for virtual programme will be based on merit. Should there be more applicants than training places, the Government of Singapore seeks the understanding of the respective National Focal Point for Technical Assistance in the event that its nominee(s) is not selected.

All nominees are to submit their applications online at <https://go.gov.sg/waterresources2024> by **Monday, 22 January 2024**. All application forms must also be **endorsed** by the respective Ministry of Foreign Affairs or National Focal Point for Technical Assistance via email links. All nominees are to also indicate their choice of attending only virtual programme **or** virtual and in-person programme as part of their "*reason for application*" in the application. Instructions and FAQs for Applicants and NFPs can be found at the links below:

- Applicants: <https://go.gov.sg/start-guide>
- NFPs: <https://go.gov.sg/start-nfp>

Note:

- Participants will receive a certificate of completion from the SCP upon completion of the course and meeting the attendance requirement.
- Please refrain from making telephone and email inquiries on the status of your application while your application is being processed.
- Nominees for in-person programme must obtain the electronic certificate of completion for the virtual programme.
- Selection to attend the in-person programme will be based on merit, the evaluation of

written proposals submitted after the virtual programme, and other factors.

- The **Ministry of Foreign Affairs, Singapore** will inform all applicants of the outcome of their applications. The NFP will also be informed directly.

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