

**UNDERSTANDING RISK MANAGEMENT AND RISK FINANCING FOR DISASTER RESILIENCE**

**20 SEPTEMBER TO 4 OCTOBER 2021**  
**VIRTUAL FORMAT**

Jointly sponsored by the

**SINGAPORE COOPERATION PROGRAMME**

and the

**UNITED NATIONS OFFICE FOR DISASTER RISK REDUCTION (UNDRR)**

under the

**SINGAPORE-UNDRR JOINT TRAINING PROGRAMME**

to be conducted by the

**CENTRE FOR PROFESSIONAL AND CONTINUING EDUCATION**  
**NANYANG TECHNOLOGICAL UNIVERSITY, SINGAPORE**

the

**UNDRR**

and the

**UNIVERSITY OF WEST INDIES**

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**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, over 132,000 officials from more than 180 countries and territories have participated in our courses and study visits. The SCP is managed by the Technical Cooperation Directorate of the Ministry of Foreign Affairs, Singapore.

**United Nations Office for Disaster Risk Reduction (UNDRR)**

UNDRR brings governments, partners and communities together to create a safer, more resilient world and is the focal point in the United Nations system for disaster risk reduction focused on building resilience and protecting sustainable development gains from disasters. UNDRR is also the custodian of the Sendai Framework for Disaster Risk Reduction, supporting countries in its implementation, monitoring and review of progress. The Regional Office for the Americas and the Caribbean facilitates this work in the region, including the organization of the Regional Platform for Disaster Risk Reduction.

The UNDRR Global Education and Training Institute (GETI), which was established in 2010, has a mandate to develop a new cadre of professionals in DRR and climate change adaptation for disaster resilient societies. To deliver on this mandate, it has focused primarily on

national and city leaders and municipal disaster risk managers. Over the years, UNDRR GETI has trained over 16,900 officials and other participants from 186 countries and territories.

### **University of West Indies (UWI)**

The University of the West Indies (UWI) has a mission to advance learning, create knowledge and foster innovation for the positive transformation of the Caribbean and the wider world. The UWI has evolved from a university college of London in Jamaica with 33 medical students in 1948 to an internationally respected, regional university with near 50,000 students and five campuses: Mona in Jamaica, St. Augustine in Trinidad and Tobago, Cave Hill in Barbados, Five Islands in Antigua and Barbuda and an Open Campus. A global university rooted in the Caribbean, UWI also has 10 global centres in partnership with universities in North America Latin America, Asia, Africa, and Europe.

### **Centre for Professional and Continuing Education, Nanyang Technological University, Singapore (PaCE@NTU)**

A research-intensive public university, Nanyang Technological University, Singapore (NTU Singapore) has 33,000 undergraduate and postgraduate students in the Engineering, Business, Science, Humanities, Arts, & Social Sciences, and Graduate colleges. It also has a medical school, the Lee Kong Chian School of Medicine, set up jointly with Imperial College London.

NTU Singapore is also home to world-class autonomous institutes – the National Institute of Education, S Rajaratnam School of International Studies, Earth Observatory of Singapore, and Singapore Centre for Environmental Life Sciences Engineering – and various leading research centres such as the Nanyang Environment & Water Research Institute and Energy Research Institute @ NTU.

Ranked among the world's top universities by QS, NTU has been placed the world's top young university for the past seven years.

Drawing upon NTU's world-renowned faculty and strong industrial connections to develop quality content, PaCE@NTU offers a wide range of programmes and courses for working professionals that are curated from various disciplines, and conducted via different learning platforms. By offering

short courses to semester-long courses, PaCE@NTU aims to equip professionals, managers, executives and technicians with cutting edge knowledge and skills to keep pace with the rapid technological changes in today's increasingly competitive economy and industrial landscape.

### **Course Objectives**

The course aims to enhance ongoing efforts of the UNDRR to support and strengthen the efforts of Caribbean SIDS to enhance their risk-financing and resilience by better planning for future large-scale disasters in order to save lives and reduce disaster losses; support enhancement and implementation of Country Work Plans (CWP)/National Disaster Risk Reduction Strategies and/or development plans to prevent the creation of new risk and reduce existing risk, and contribute to the achievement of the global targets of the Sendai Framework for Disaster Risk Reduction (2015 – 2030); support the integration of DRR within sustainable socioeconomic development in order to reduce people's vulnerability and exposure; and strengthen partnerships and the cadre of trained professionals for DRR in the Caribbean region. It also supports the 2021 Regional Platform for DRR theme 'Building Resilient Economies in the Americas and the Caribbean.'

The course will provide an opportunity to exchange experience based on UNDRR, the Caribbean and the Singapore training experience. It seeks to build upon the existing Caribbean training process and strengthen partnerships and the cadre of trained professionals for Disaster Risk Reduction in the Caribbean region. As such, the course will also aim to train-the-trainer.

### **Synopsis**

The programme will cover the following aspects:

- Understanding Systemic Risk
  - Lessons from COVID-19: Taking a multi-hazard approach to risk reduction, including addressing biological risks and multiple hazards
- Understanding Risk from an Economic Lens
  - Conducting vulnerability assessments through economic risk analysis, catastrophe assessment, and finance management

- Strengthening Governance for Coherent DRR, Climate and Sustainable Development Action
  - Strengthening policy and decision-making processes
  - Promoting coherence in planning, budgeting, implementing and monitoring aspects of national strategies and plans related to development, adaptation and resilience.
  - Promoting greater decentralisation of decision-making to the local level
- Investing in Sustainability, Adaptation and Resilience
  - Financing climate change adaptation and mitigation measures
  - Securing innovative climate financing
- Enhancing Preparedness for Effective Response and Build Back Better from an Economic Lens
  - Public health resilience through pandemic preparedness in Singapore
  - Pre-disaster investment in resilience and planning for 'build back better'
  - Innovative post disaster financing

Please view this video for more information on the Singapore-UNDRR Joint Training Programme and DRR: <https://www.go.gov.sg/drr2019video>.

### Methodology

This short course will mix lecture, discussion and practical exercise with the aim of maximising engagement and exchange of experience among participants. Zoom platform will be used for meetings (polls, chat and Q&A), reading, online video and/or offline presentations for self-study, and tools for individual and group practice. Participants will also have adequate opportunity to share their experiences, learning points and challenges in an online discussion forum.

### Regulations

Participants are required to comply with the following:

- Strictly observe course schedule and not miss training sessions, and;
- Carry out instructions and abide by conditions as may be stipulated by the nominating Authority or Government, the Government of Singapore, UNDRR and PaCE@NTU, with respect to the course.

### Duration

The online sessions will be held on **20 & 22 September** from **7.30am to 9.30am (Caribbean time, GMT -4)** and, **27 & 29 September** and **1 & 4 October 2021**, from **7.30am to 9.15am (Caribbean time, GMT -4)** on each of these days. This will be followed by self-study reading and online discussion of 30 to 60 minutes. A follow-up session focused on the Caribbean will be organized by UNDRR, ROAMC and UWI at a later date. Please see [Annex](#) for the draft programme (subject to changes).

Note: Session 0 on 20 September is for trainers-in-training only.

### Application Information

Applicants should be:

- Mid-to senior-level government officials from the Caribbean states and territories involved in **disaster risk reduction policy making (e.g. Sendai Framework local ministry)**, and **risk-informed investments (e.g. Ministry of Finance or budget office)**;
- Identified trainers, ideally in partnership with UWI, Caribbean Disaster Emergency Management Agency (CDEMA) and/or representatives from Caribbean regional and national training departments. These trainers should have the potential to replicate the training in their respective countries
- Able to attend **all** the synchronous e-learning sessions. They 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; and
- In good health.

### Terms of Award

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

### Application Procedure

(Closing date for nomination: **23 August 2021**)

The Government of Singapore is pleased to invite the respective National Focal Point for Technical

Assistance (NFP) to nominate three (3) suitable applicants:

- One (1) applicant involved in **disaster risk reduction policy making and implementation**;
- One (1) applicant from the **finance/budget office**; and
- One (1) **trainer** with the potential to replicate the training in the local context. The trainer should be representatives from the Caribbean regional and national training departments.

Selection of candidates will be based on merit. Should there be more applicants than training places, the Government of Singapore seeks the understanding of the respective NFP in the event that its nominee(s) is not selected.

All nominees are to submit their applications online at <http://www.go.gov.sg/caribbean2021> by **Monday, 23 August 2021**. NFPs are also required to use the SCP website ([www.scp.gov.sg](http://www.scp.gov.sg)) to endorse nominees. 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 who attend 75% of 'live' e-learning sessions, will receive a certificate of completion from the SCP.
- Applicants should refrain from making telephone and email inquiries on the status of their applications.
- The **Ministry of Foreign Affairs, Singapore** will inform all applicants of the outcome of their applications. The NFP will also be informed directly or through Singapore's diplomatic representations in the nominating country.

**Follow us at:**

- SCP Website: [www.scp.gov.sg](http://www.scp.gov.sg)
- Facebook: [www.facebook.com/SCPFriends](https://www.facebook.com/SCPFriends)

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	<p>8:30-10:30 Sto. Domingo</p> <p>20:30-22:30 Singapore</p> <p>21:30-23:30 Incheon</p>	<p><b>Understanding Systemic Risk</b></p> <p>1.1 Risk-Informed Planning &amp; the Imperative for Comprehensive Disaster Risk Management Disaster Risk Reduction - <i>UNDRR</i></p> <p>1.2. Understanding Systemic Risk - <i>NTU</i></p> <p>1.3 Lessons from COVID-19 in Singapore – <i>Invited Experts</i></p> <p><b>Q&amp;A Plenary Discussion</b></p> <p><b>Caribbean Context</b></p> <p>1.4 Understanding and Addressing Systemic Risks in the Caribbean - <i>UWI</i></p> <p><b>Closing &amp; Next Session Intro</b></p>	<p>10'</p> <p>15'</p> <p>30'</p> <p>30'</p> <p>15'</p> <p>5'</p>	
	<p><b>Self-Study</b> <b>30 minutes</b></p>	<p><b>Exercise and/or Online Discussion –</b> <i>NTU and/or UWI</i></p>	<p>30'</p>	<p><b>Discussion Forum</b></p>
<b>2</b>	<p><b>Wednesday, 27 September</b> <b>105 minutes</b></p> <p>7:30-9:15 Kingston</p> <p>8:30-10:15 Sto. Domingo</p> <p>20:30-22:15 Singapore</p> <p>21:30-23:15 Incheon</p>	<p><b>Understanding Risk from an Economic Lens</b></p> <p>Introduction &amp; Session 1 Recap – <i>UNDRR &amp; UWI</i></p> <p>2.1 Overview of Vulnerability and Risk assessment in the face of CC &amp; SLR for Singapore</p> <p>2.2. Cost-Benefit Analysis and Economic Evaluation of Alternatives – <i>NTU</i></p>	<p>5'</p> <p>45'</p>	<p><b>Zoom Meeting</b></p>
		<p><b>Group Work</b></p> <p>2.3 CBA exercise: Cost-benefit analysis of Singapore Bishan-Ang Mo Kio Park</p>	<p>25'</p>	<p><b>Breakout Room</b></p>
		<p><b>Plenary Feedback</b></p> <p><b>Caribbean Context - UWI</b></p> <p><b>Closing &amp; Next Session Intro</b></p>	<p>10'</p> <p>15'</p> <p>5'</p>	<p><b>Zoom Meeting</b></p>
	<p><b>Self-Study</b> <b>30 mins</b></p>	<p><b>Caribbean Context</b></p> <p>Discussion: 2.4 Understanding risk from an economic lens in your country/territory</p>	<p>30'</p>	<p><b>Discussion Forum</b></p>
<b>3</b>	<p><b>Friday, 29 September</b> <b>105 minutes</b></p>	<p><b>Strengthening Governance for Coherent DRR, Climate and Sustainable Development Action</b></p>		<p><b>Zoom Meeting</b></p>



	<p>7:30-9:15 Kingston</p> <p>8:30-10:15 Sto. Domingo</p> <p>20:30-22:15 Singapore</p> <p>21:30-23:15 Incheon</p>	<p>Introduction &amp; Session 2 Recap</p> <p>3.1 Global &amp; Regional Policy Coherence: The Sendai Framework for Disaster Risk Reduction and the Caribbean Disaster Management Framework – <i>UNDRR &amp; CDEMA</i></p> <p>3.2 An Overview of Singapore Policies, and Decision-making Process</p> <p>3.3 Overview of Singapore's Experiences and Strategies in Disaster Risk Management – <i>NTU</i></p> <p><b>Q&amp;A Plenary Discussion</b></p>	<p>5'</p> <p>15'</p> <p>30'</p> <p>10'</p>	
		<p><b>Group Work</b> Comprehensive Risk Management</p>	25'	<b>Breakout Room</b>
		<p><b>Feedback</b> <b>Caribbean Context</b> – <i>UWI</i> <b>Closing &amp; Next Session Intro</b></p>	<p>10'</p> <p>15'</p> <p>5'</p>	<b>Zoom Meeting</b>
	<p><b>Self-Study</b> <b>60 minutes</b></p>	<p><b>Singapore</b> 3.4 Reading: Cases &amp; Climate Policy - <i>NTU</i> <b>Caribbean Context</b> 3.5 Discussion: Strengthening Governance for Coherent DRR, Climate and Sustainable Development Action in the Caribbean – <i>UWI</i></p>	60'	<p><b>Self-Study</b>  <b>Discussion Forum</b></p>
4	<p><b>Friday,</b> <b>1 October</b></p> <p><b>105 minutes</b></p> <p>7:30-9:15 Kingston</p> <p>8:30-10:15 Sto. Domingo</p> <p>20:30-22:15 Singapore</p>	<p><b>Investing in Sustainability, Adaptation and Resilience</b></p> <p>Introduction &amp; Session 3 Recap - <i>UNDRR &amp; UWI</i></p> <p>4.1 Mobilising Private sector Financing &amp; Catalyzing green investments through public policies in Singapore</p> <p>4.2 DBS Green Financing</p> <p>4.3 World Bank Green Infrastructure Financing</p> <p><b>Q&amp;A Plenary Discussion</b></p>	<p>5'</p> <p>30'</p> <p>10'</p>	<b>Zoom Meeting</b>

	21:30-23:15 Incheon	<b>Group Work</b> Experience sharing: challenges, opportunities and current financing schemes.	25'	<b>Breakout Room</b>
		<b>Feedback</b> <b>Caribbean Context</b> <b>Closing &amp; Next Session Intro</b>	10' 15' 5'	<b>Zoom Meeting</b>
	<b>Self-Study</b> <b>60 minutes</b>	<b>Reading - NTU</b> 4.4 World Bank Clean Energy Financing Instruments 4.5 Climate Finance in Asia 4.6 Green Bonds in Singapore <b>Caribbean Context</b> 4.7 Investing in Sustainability, Adaptation and Resilience in the Caribbean – <i>UWI</i>	60'	<b>Self-Study</b>  <b>Discussion Forum</b>



5	<b>Monday, 4 October</b>  <b>105 minutes</b>  7:30-9:15 Kingston  8:30-10:15 Sto. Domingo  20:30-22:15 Singapore  21:30-23:15 Incheon	<b>Enhancing Preparedness for Effective Response and Build Back Better from an Economic Lens</b>  Introduction & Session 4 Recap - <i>UNDRR &amp; UWI</i>  5.1 Introduction to Disaster Risk Financing - Public and Private Partnership  5.2 Financing Urban Infrastructure - Public Private Partnerships in Singapore  5.3 Billion Dollar questions  <b>Q&amp;A Plenary Discussion</b>  <b>Caribbean Context - UWI</b>	5'   30'   10' 15'	<b>Zoom Meeting</b>
		<b>Closing Ceremony</b>  Singapore Cooperation Programme and UNDRR	15'	
<b>Post-Course Caribbean Session</b>	<b>TBD</b>	<b>Understanding Risk Management and Risk Financing for Disaster Resilience – Taking it forward in the Caribbean</b>  - <i>UWI &amp; UNDRR ROAMC</i>	<i>TBD</i>	<b>Zoom Meeting</b>