

## **Disaster related statistics framework**

### **(e-Learning course)**

**22 February- 9 April 2021**

### **Guideline**

#### **I. OVERVIEW OF THE COURSE**

Disasters continue to have an ever-increasing impact on life, well-being and sustainable development. Given these impacts, there is a high demand at the local, national and international levels for high quality, integrated statistics to inform all phases of the disaster risk management cycle. Furthermore, disaster related statistics are not only relevant to those working to prepare and respond to disasters but also to the public at large, research institutions and policy analysts at the local and national levels. In response to the increased demands for disaster related statistics, the disaster management and official statistics communities in Asia-Pacific have developed the Disaster-related Statistics Framework (DRSF).

The DRSF aims to improve countries capacities to produce high quality, integrated statistics on disasters; and, it is the basis for this course. During the course participants will learn about the importance of harmonized data and its relevance to policy making at the national and global level. Other topics covered include statistics on disaster risk, disaster occurrence and impacts, and economic losses. Further details on course content follow below.

#### **II. TARGET PARTICIPANTS**

The target audience are officials in national statistical offices, line ministries and other institutions (including National Disaster Management Agencies) who are working on disaster related issues. The course can also be useful to a wider audience who is interested to learn more about disaster related statistics.

#### **III. LEARNING OUTCOMES**

By the end of the course, participants will be expected to:

- Be informed about relevant policy initiatives (including international initiatives such as the Sendai Framework and the SDGs)

- Understand concepts of disaster statistics
- Learn about harmonized data and integration of different data sources to support policy development
- Comprehend data relevant to different components of disaster risk management cycle

#### IV. COURSE DESIGN AND CONTENT

Each module consists of slides with explanations. After all modules have been completed, participants will be required to complete a final test that will cover all modules. The modules are expected to take a maximum of 7 hours to complete. Participants are also expected to attend the course webinars. The webinars will provide an overview of the course topics and allow for participants to ask questions. Furthermore, participants are encouraged to actively participate in the online forum of the course. Topics for discussion will be posted on a regular basis and participants are invited to share their views/comments/questions.

#### Outline

Module	Coverage
<b>1. Introduction to DRSF</b>	<ul style="list-style-type: none"> <li>• Why we need to harmonize statistics</li> <li>• The policy context of the DRSF</li> <li>• Working with the DRSF</li> </ul>
<b>2. Measuring disaster risk</b>	<ul style="list-style-type: none"> <li>• Assessing risks</li> <li>• Hazard statistics</li> <li>• Exposure statistics</li> <li>• Vulnerability statistics</li> <li>• Coping capacity statistics</li> </ul>
<b>3. Measuring disaster occurrence and impacts</b>	<ul style="list-style-type: none"> <li>• Disaster occurrence statistics</li> <li>• Introduction to impact statistics</li> <li>• Human impacts</li> <li>• Impacts to livelihood</li> </ul>
<b>4. Measuring economic loss</b>	<ul style="list-style-type: none"> <li>• Material impacts</li> <li>• Technical aspects of validation</li> <li>• Agricultural losses</li> <li>• Productive assets, housing and agriculture</li> <li>• Impacts to the environment and cultural heritage</li> </ul>
<b>5. Disaster-risk reduction expenditure statistics</b>	<ul style="list-style-type: none"> <li>• Concept of national account and DRSF satellite account</li> </ul>

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	<ul style="list-style-type: none"> <li>• Risk reduction expenditure</li> <li>• Disaster response and recovery expenditure</li> <li>• Disaster-related development expenditure</li> <li>• Disaster-related transfers</li> </ul>
<b>6. Compiling and presenting the data</b>	<ul style="list-style-type: none"> <li>• Creating the enabling environment</li> <li>• Integrating the DRSF into a national statistical system</li> <li>• Disaggregation and analysis</li> <li>• Data collection and analysis in the disaster risk management process</li> </ul>
<b>7. The DRSF's application to the COVID-19 pandemic</b>	<ul style="list-style-type: none"> <li>• Compiling COVID-19 statistics</li> </ul>

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## V. EVALUATION

Participants must receive a 70% or higher in the test at the end of this course.

Participants will be given 60 minutes to complete the test. They may take the exam up to three times and retain their best score. Participants may not work together on the test. The course facilitator reserves the right to deny course certificates to participants suspected of cheating on the test. The supervisor is expected to ensure that the test of the course is taken in his/her presence.

## VI. SOURCE MATERIAL

This course draws upon various sources, including international statistical standards and case studies from national statistical offices.